

# Administrator Guide

Fusion for Broadworks



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# **1** About this document

This document describes the different features and functionalities that administrators can manage on the Cisco BroadWorks solution, by using the Netaxis **Fusion for BroadWorks (F4B)** solution. It provides a solid basis to generate customized content tailored to the needs and situation of customers using the Cisco BroadWorks platform.

The document is created using the Netaxis platform as a basis, which makes that:



- The document is branded with Netaxis logo, colours and fonts. These can differ from the branding of the customer.
- The document exposes all features and integrations that are currently supported on the latest release of the F4B solution (release 3.3). There will be a section in the document, describing the new features and functionalities in future versions of the solution. Some of the screenshot of those future releases can differ from the screenshots used in the initial creation of this document.
- The document holds reference data (e.g. license names, usernames, group names, etc...) that were chosen/defined by Netaxis and are specific to the Netaxis platform. This data can differ from the reference data at the customers' side.

# 2 About the UC Control Hub

The document describes the features and functionalities offered by the **UC Control Hub**, which is a web self-care portal that customers (UCaaS and/or SIP trunking providers) can leverage to provide their customers with the ability to self-manage their hosted UC and/or SIP Trunking services.

Administrators, on all different levels, will use the UC Control Hub as a primary tool to manage their hosted UC and telephony system, as well as their SIP trunking services. They can use the self-care portal to:

- Manage Create (and delete)- the hosted users, their licenses, feature settings and UC capabilities.
- Manage phone numbers for their users. (Select phone numbers, assign them to users or services, disconnect phone numbers, etc...)
- Manage number portability Port in phone numbers from other providers.
- Setup and configure PBX services like IVRs, call queues, call centers, hunt groups and more
- Setup and configure complex call flows, call barring policies, opening hours, closing days and much more

The UC Control Hub can also be used by End Users of the Cisco BroadWorks solution managing their personal details, call services (call forwarding, call blocking, etc...). All this will be described in a separate \*\* End User Guide\*\* document.

The UC Control Hub can be customized to meet the branding and the value proposition of the customer/ Service Provider. Colours, fonts and background images can be changed, certain pages and functionalities can be hidden, labels and/or help texts can be adapted, and integrations and/or automations can be built on the backend to provide additional automation.

A more exhaustive description of the UC Control Hub can be found in the product description of the Fusion for BroadWorks solution.



# **3 Getting started**

Before getting started it is important to understand the administrator hierarchy in the Cisco Broad-Works platform. This hierarchical framework ensures that each level of administration possesses the appropriate level of access and authority, thereby streamlining operations and enhancing security measures. The Fusion for BroadWorks solution follows this hierarchy in the UC Control Hub self-care portal.

At the top of this hierarchy are the **System Administrators**, who have full control over the entire solution. They can access and manage all the different tenants created within the system, handle licenses, manage the numbers for the tenants, etc... Typically, these administrators work for the Service Provider responsible for overseeing the Cisco BroadWorks solution.

System administrators are set up during the initial phase of the provisioning process - the 1st step from the 2-step provisioning process - for the F4B solution. More detailed instructions on this process can be found in the *configuration guide* for the solution. Their tasks include defining various tenants within the solution and assigning a Tenant Administrator to each. For some services providers this 1st step may sometimes be automated, the result is the same.

The **Tenant Administrators**, who operate at the level of the tenant organization, have access to all resources within their respective tenant. Upon logging into the UC Control Hub, they are seamlessly directed to their tenant's dashboard, where they can manage and manipulate resources as per organizational requirements. Depending on how the Cisco BroadWorks solution has been setup - this can be done in *Enterprise mode* or in *Service Provider mode* - a tenant administrator is either an **Enterprise administrator**, when the setup is done in Enterprise mode, or a **Group administrator** when the setup is in Service Provider mode. The tenant administrators can also access and manage all the groups in their tenant but cannot see (not access or manage) other tenants on the solution.

Further down the hierarchy lie the **Group Administrators**, also known as *Site Administrators* in the context of site-based structures within enterprises. Group Administrators are entrusted with the responsibility of managing the settings and configurations specific to their group or site to which they are assigned. Upon login into the UC Control Hub, these administrators are directed to the dashboard of their designated group or site. Group administrators don't see (cannot access or manage) the other groups defined on the solution.

An "in-between" level, **Department**, is defined in the BroadWorks solution, but for this the UC Control Hub does not support an administrator in the hierarchy. The department is managed by the group administrator.

Lastly, there are the **End Users** of the BroadWorks solution. They have limited access, restricted to viewing and managing settings related solely to their individual user profiles. Upon logging into the



UC Control Hub, they are redirected to a user-friendly dashboard that lists the settings relevant to their profile, allowing them to seamlessly navigate and customise options according to their needs.

# 3.1 Logging into the UC Control Hub

When entering the correct URL from the self-care portal, the administrator is redirected to the login page of the UC Control Hub. The administrator can enter its credentials which lead him to the appropriate page - depending on the administrator profile - in the portal.



The login page look as follows:

There are 2 ways of delivering the administrator (initial) password credentials for the Tenant and Group administrators. Or the initial password was handed over to the system administrator when creating the tenant or group administrator, or the tenant and/or group administrator receive a welcome mail containing the username of the administrator and allowing him to set up his password.

### 3.1.1 Welcome mail

When the system administrator creates a tenant administrator on the platform and activates the **Send a Welcome mail** flag, that administrator will receive an e-mail containing the following information:

- the username to be used for logging into the UC Control Hub.
- a link to the UC Control Hub allowing the administrator to initialize his password.



Below you can find an example of a welcome mail. In this example, the username of the administrator is not included. The body and the branding of the email can be customized to the preferences of the customer.



Clicking on the link will redirect the administrator to the page where he can initiate his password for the UC Control Hub self-care portal.



After initiating the password, the administrator will be redirected to the login page, where he can login using the username and password (the password that was initialized via the password reset form.





After entering the credentials, the tenant administrator will be redirected to the landing page of tenant admins, which is the Tenant dashboard. The screenshot below shows an example of the tenant landing page after the login process has finished.

Y	UC Control Hub	🕴 Home / 🖿 Test Enterprise Stijn	Show advanced features 🚺	FAQ ? Help 🌐 EN 🗿 😫
$\langle \cdot \rangle$	Test Enterprise Stijn Enterprise	Dashboard		
88	Home	Licenses	Sites 2	
<i>e</i>	Call flows		Q Search	
Do	Accounts	Advanced seat (advanced	1 H Headquarters	2 PP Paris Production
	Sites	Features)     Standard seat (basic feautres) 20		
<u>@</u>	Licenses	Voicemail (incl emails) 15     Call center agent (standard) 10     Cill center agent (standard) 10		
Ç	Phone numbers	Call quede memoer 10		
Q	Mobility			
20	Contacts	Go to licenses →		More sites $\rightarrow$
Do	Admins	1	Phone numbers	Mobile numbers
	Schedules		<b>7 /</b> 15	<b>0 /</b> 0

Additional tenant administrators can be created through the UC Control Hub by any tenant administrator. When adding such a new administrator via the portal - selecting the **Admins** service on the left side panel and click on the **+Add** button - the pop-up window will offer the choice to either send a welcome mail to that new tenant administrator or force to set the password. In the latter case, securely



sharing the password with the new tenant admin is needed.

**Note:** Some customers only allow the system administrator (mainly the administrator of the Service Provider) to create additional Tenant administrators. If this is the case, then the **Add** button can be disabled (or hidden) trough a configuration change.

Username:*			
First name:*			
Last name:*			
Language: *	Select		•
Email:*			
	Send 'Welco	me mail'?	
Password:*			$\otimes$
Confirm password:*			$\otimes$

#### 3.1.2 Don't remember me

By default, the self-care portal will try to keep the administrator or end user logged in, even when they have closed their browser or have powered off their device. The session for the administrator (or end



user) will stay open for a certain amount of time, by default 48 hours but configurable (more details in the configuration guide). **Security TIP:** If you log on via a device that you don't own, it is advised to select the "*don't remember me!*" option. This will avoid staying logged in although you have closed your browser or rebooted your device. This will prevent that somebody else can make changes on your behalf when using the same (or your) device. For the same reason, the login form will not suggest saving your password.

# 3.1.3 2-factor authentication

The platform supports 2-factor authentication to reduce the risk of malicious log in. Today the solution supports 2FA via email or via SMS. In this latter case, the service provider needs to provide a SMS gateway for sending out the SMS's which contain the verification codes to the persons who will log into the UC Control Hub.

**Note:** In one way or another the mobile numbers of those persons should have been introduced in the system.

2-factor authentication via email will of course only be enforced in case the account - administrator or end user - is setup with an e-mail address. If this is the case, the platform will detect when the account tries to log into the UC Control Hub and will prompt the account for a code (challenge) that the account will receive via email.

When 2FA is activated for the accounts, then they will receive the following page after they have submitted their credentials on the log-in page:





The email that the account will receive when 2FA via email is active, can look as follows: (the body and the branding of the email can be adapted to the preferences of the customer during the setup and configuration of the solution).



When activating the checkbox "*Trust this device*" on the 2FA page in the portal, the account will be immediately forwarded to the landing page on the next login. As from that moment, and this for a configurable amount of time (more details in the configuration guide about setting up 2FA), the account will not be prompt to enter the (challenge) code.

#### 3.1.4 Forgot Password

The login page has a link that allows the account to reset his password.

Clicking on this *Forgot password* link will open a new window that asks for the username of the account from who the password needs to be reset. An email with a reset password link will be sent to the email address linked to that account. If no email has been configured, the reset of the password will fail, and the old password remains valid. In this case, the administrator who has created the account can reset the password.

The reset password screen look as follows:





The email that the account receives can look as follows: (the body and the branding of the email can be adapted to the preferences of the customer during the setup and configuration of the solution).

	[ Demo-APIO ] reset your password > Inbox ×						
S	shareduser@netaxis.be to ▼ Hi!						
	Seems you forgot your password. You can reset it using this url: <u>https://apio.netaxis.be/reset-password /</u>						
	This link is valid until your password has been set correctly.						
	In case of questions, send them to < <u>support@netaxis.be</u> >						
	Stay safe and take care! Netaxis						

# 3.2 The UC Control Hub screen

This chapter describes the main sections that can be found on the UC Control Hub screen after the login procedure has been performed. It is applicable for the administrator view (system admins, Tenant admins and Group admins) as well as when an end user logs into the self-care portal.



### 3.2.1 Common Parts

The UC Control Hub has some zones (or areas) on the webpage that are the same for all the different accounts. The icons give the same information and/or functionality to the administrators and/or end users.

The below screen shows the webpage from one of the administrators where some of the "**common parts**" are highlighted.



The table below shows a short description of those common areas.



Area number	Name or Function	Short description
1	Services	In this left side panel the services are shown which can be provisioned in the (BroadWorks) system. Selecting one of these services, opens a new window showing the information (parameters, KPIs, configurable items, etc) about that specific service. Depending on which services are assigned to the service provider, the items in this list can be adapted (services which are not bought by the SP can be hidden.
2		Clicking on this icon will take you one step back(to the screen on which you were just before this).
	Name Tenant	The name of the Enterprise or Group is shown next to the "one-step-back" icon.



Area number	Name or Function	Short description
3		Clicking on this icon unfolds the left side panel to make the
		name of the service visible. Frequently using the self-care portal allows to get familiar with the different service icons so that you can hide the names (to save some space on the screen).
	Home / 🗈 Test Enterprise Stijn	These are the "breadcrumbs" showing you were you are in the self-care portal. You can use these breadcrumbs to go a few steps back or to go to specific page by clicking on one of the words in this line.
4	Show advanced features	This switch allows end users to show or hide some of the services in the left side panel. Some end users have enough when seeing just the basic features and don't need to see the advanced features in their list.Turning OFF this switch doesn't mean disabling those features. They will still be active



Area number	Name or Function	Short description
	? Help	
		When clicking on this ?Help
		function on top of the screen,
		will open a right side panel with
		some explanation and
		information of the page where
		you are at that moment.
	EAO	
		This icon is not present on this
		screenshot and only available
		after configuration (is is not
		shown by default).The FAQ
		functionality allows the service
		provider or the customer to link
		a "Frequently Asked Questions"
		(FAQ) webpage (or support
		webpage) to this "FAQ" icon and
		when clicking on it, it redirects
		the account to a FAQ webpage
		which is made available by the
		customer or service provider.
	$\bigcirc$	
	$\bigcirc$	Clicking on this icon show
		release information from the
		self-care portal. This icon is
		only available when logged in
		as system administrator
		· · · · · · · · · · · · · · · · · · ·



Area number	Name or Function	Short description
	EN EN	When an account is created, a language is selected for the account during the configuration wizard.When logging into the portal, it automatically switches to this language. If another language needs to be used, this toggle gives the list of the available languages. The default languages are Dutch (NL), French (FR), English (EN). On request, other languages (Portuguese (PT), Arabic (AR), German (GE)) can be made
	5	available through configuration. This feature gives traceability on all the changes that were done on an enterprise, on a user or on a group and brings an added value for technicians and support engineers when they're troubleshooting the solution.
	0	Clicking on this icon allows changing the password for the account that is logged in and logging out of the self-care portal.



Area number	Name or Function	Short description
5	Dashboard	The dashboard includes a
		number of cards showing valid
		information for the account.
		Some of the cards contain a link
		to easily go to the page to
		further consult or configure that
		specific item. The cards can be
		hidden through configuration
		and are linked to the services
		that are used within the
		BroadWorks solution. If the
		customer doesn't have any Call
		Center services, the call center
		cards will not be shown.

#### 3.2.2 The landing page

The landing page is the first page where the account (administrator or end user) is redirected to after the log-in procedure. Depending on the authorization level of your account, this landing page may slightly differ between the different profiles.

By default, the landing page is the "Dashboard" page or the "Details" page on the **Home service** of the account. For Group Administrators another landing page can be configured during the setup of the Fusion for BroadWorks solution.

Below there is a short description about the landing pages of the different administrator profile of the UC Control Hub.

#### 3.2.2.1 System administrator view

When logging in with system administrator credentials, the landing page on the UC Control Hub looks like the following:



UC Control Hub	٠		Show advanced features 🥥 ? H	lelp 🌐 EN 👔 🕒
Home	Tenants			
Q Search	Tenants Database			
ې Synchronisation	Q Search			
	ID	Name	Туре	Source
	1 PROD6390	Telesystem Demo	Enterprise	
	2 orange	Orange	Enterprise	
	3 PROD4105	NOS Central Pro Demo enterprise	Enterprise	
	4 PROD8707	NOS Demo HPBX Service Provider	ServiceProvider	
	5 ApioProduct		ServiceProvider	
	6 PROD2042	ZainCustomer	Enterprise	
	7 PROD6898	SFR Enterprise	Enterprise	
	8 PROD5610	Netaxis Presales	Enterprise	

#### 3.2.2.1.1 Home service

The **Home** service shows the **Tenant Database**. These are all the tenants that are created on the BroadWorks platform together with their ID, their name and the way that they have been set up in the BroadWorks solution (Enterprise mode or Service Provider mode).

Selecting the ID of one of the tenants will redirect the system administrator to the landing page, the *Dashboard*, of the selected tenant. The system administrator will then have the same view as a Tenant administrator.

In the Search bar the system administrator can search for a specific tenant.

#### 3.2.2.1.2 Search service

There is an additional, more advanced, way of searching for the system administrator.

A search based on

• User information:



with an Advanced search field showing more options to search on:



Advanced search			×
Search criteria:		Clear all	
User ID contains:			
User last name contains:			
User first name contains:			
User email contains:			
User phone number contains:			
User extension contains:			
Max number of results:			
	Cancel	Search	

# • Site information:



	J	UC Control Hub	:				
	11	Home	Search				
Ľ	Q	Search	Users	Sites	Devices	Phone numbers	
1			Filter:			Please select filter and enter anything you want to search	
	Ç	Synchronisation	Select	•		Q Search (i) $=$ Advanced search	
			Site ID				
			Site name				

also with an Advanced search field showing more search options:

Advanced	search		×
Search criteria:		Clear all	
Site ID contains:			
Site name contains:			
Tenant ID equals:			
	Cancel	Search	



### • **device** information:

	J	UC Control Hub	•					
		Home	Search					
Ľ	Q	Search	Users	Sites	Devices	Phone numbers		
	Ç	Synchronisation	Filter: Şelect	•		Q Search	<b>(</b> )	<b>⊤</b> Advanced search
			Device name					
			Device type					
			MAC address					
			IP address					

Again with *Advanced search* options:



Advanced search				×
Search criteria:			Clear all	
Site ID contains:				
Device name contains:				
Device type contains:	Select		•	
MAC Address contains:				
IP Address contains:				
		Cancel	Search	

#### • Phone numbers information:

	UC Control Hub	•				
	Home	Search				
Q	Search	Users	Sites	Devices	Phone numbers	
Ç	Synchronisation			Please enter	full phone number	



#### 3.2.2.1.3 Synchronisation service

On the synchronisation service, the system administrator can consult the results of an LDAP, or Active Directory (AD), synchronisation service (if that has been setup and configured for this customer or service provider).

The screenshots below show the default page, when there is no LDAP/AD synchronistion configured, based on a:

#### • **Tenant** synchronisation:

UC Control Hub	1		Show advanc	ed features 💽	? Help	i
Home	Remote directory synchronisation					
Q. Search	Tenants Sites Users					
Q Synchronisation	O Tenants in Remote Directory O Synchronised O Pending synchronisation O Must be sychnronised O Must be skipped Q Search Detailed synchronisation status:					
	Tenant ID Remote directory Remot	e directory reference	Status	Additional status	Last synched tir	ne
		No records to display				
					10 👻 per page	< >

• **Site** (or Group) synchronisation:

netaxis
SOLUTIONS

UC Control Hub				Show adva	anced features 🔵	? Help	⊕ EN (j)	θ
Home	Remote directory synchr	onisation						
Q. Search	Tenants Sites	Users						
Synchronisation	Select tenant to show their sites	•						
	O Sites in Remote Direct O Synchronised O Pending synchronisation O Must be sychnronised O Must be deleted	tory						
	Q Search							
	Detailed synchronisation status:							
	Site ID	Remote directory	Remote directory reference	Status	Additional status	Last s	ynched time	
			No records to display	у				
						10 -	per page	< >

#### • User synchronisation:

UC Control Hub	1	? Help	i 🕒			
🛅 Home	Remote directory synchronisation					
Q. Search	Tenants Sites Users					
Synchronisation	Select tenant to show their users: Select  Users in Remote Directory Synchronised Oust be sychnonised Must be deleted  Call Search Detailed nachronization status:					
	User ID Remote directory	Remote directory reference	Status	Additional status	Last synched tim	e
		No records to display				
					10 👻 per page	$\langle \rangle$

The example below shows the result of a Tenant synchronisation. The Tenant ID is shown, as well as the Remote directory name, the reference that has been synchronised, the status and the last synched time.



y UC Control Hub	•			Show advanced feat	ures 💽	? Help	⊕ EN (	00
Home	Remote directory sync	hronisation						
Q. Search	Tenants Sites	Users						
Q Synchronisation	Tenants in Remote I Synchronised Pending synchronisati Must be sychoranised Must be skipped Q_ Search Detailed synchronisation status:	Directory						
	Tenant ID	Remote directory	Remote directory reference	Status	Additional status	L	ast synched me	
	1 LDAP_OROU_E	LDAP	dc=orouenterprise,dc=be	Synchronised		2	023-10-26/18	44
					1	0 v per	page	1 >

#### 3.2.2.2 Tenant Administrator landing page

The Tenants administrator dashboard gives a view on:

- The licenses that are used within the tenant, together with an indication of the number of licenses that is being used.
- A card which shows the different sites or Groups within that tenant.
- The amount of phone numbers that are being used.
- The number of Mobile numbers that are in use.

Each of these cards contain a link, as a kind of shortcut, to "Go to" the specific service for further configuration or consulting. The services can also be found via the left side panel.

The below example is a view of the Tenant administrator Dashboard.

y UC Control Hub	Home / 🛍 Test Enterprise Stijn				Show advanced fea	tures 💽 ? Help 🌐 EN 🗿 😝
Test Enterprise Stijn     Encerprise	Dashboard					
Image: Home       Image: I	Licenses	Advanced vest (advanced features) 20     Structured seal: basic features) 20     Woternal (incl emails) 15	Sites 2 Q, search 1 (H) Heedquarters	2 PP Paris Production	Phone numbers <b>7 /</b> 15 Geta phone numbers →	Mobile numbers <b>0 /</b> 0 Go to mobile numbers →
Sites Sites Licenses Cioud Cennections		<ul> <li>Guil center agent (standard) 10</li> <li>Guil queue member 10</li> </ul>		More sites $\rightarrow$		
Mobility     Contacts     Admins						
Schedules ∴ Porting requests						
"L, Trunkgroups O, Search E Details						



#### 3.2.2.3 Group Administrator landing page

The Groups administrator dashboard shows:

- The call flows that are assigned to this group (or site) and an indication of the amount of different call flows. Some of the call flows are attached to a Service Pack in BroadWorks so, depedent if the service pack is assigned or not, the view of the call flow cards can differ from customer to customer.
- A view on the licenses that are used within this group (or site), together with an indication of the number of licenses that is being used.
- A list of users that are created in this group/site together with some information about the users.
- The number of devices that are created in the group/on the site.
- The amount of assigned phone numbers in the group/on this site.

Again, these cards contain a link (a shortcut) to "Go to" the specific service for further configuration or consulting. The services can also be found via the left side panel.

As from the 3.3 release, it's possible to configure another landing page for the Group administrators, other than the Dashboard or the Details page.

y UC Control Hub	👔 Home / 🖂 / Groups / 🔄 Headquarters 💽 ? Indo 🌰 EM 😒 \varTheta						
Headquarters Site	Dashboard						
BB     Home       %     Call flows        Accounts	IVR MR 2	HC Hunt Groups O	Call Queues		CC Call Centers O	PG Pickup Groups O	PCC Premium Call Centers 0
Contacts	Licenses		Users 2 Q. Search			Devices 3	Assigned numbers <b>3 /</b> 3
C Phone numbers		Advanced seat (advanced features) 10     Call Logs for IVRs, Hunt Groups and Call     Centers     10	Name Sid Phillips	Phone number	Extension	Go to devices →	Go to phone numbers $\rightarrow$
<ul> <li>Licenses</li> <li>Schedules</li> </ul>		Standard seat (basic feautres) 8     Call center agent (standard) 5     Call queue member 5	John Doe	+3225403881	3881 Go to all users →		
👸 Departments		Go to licenses →					
🖸 Devices							
ئے Trunking +& Admins							
Details							

The below example is a view of the Group administrator Dashboard.

#### 3.2.2.4 The end user landing page

The end user landing page is fully described in the End User guide.



# 4 Administrators service mapping

The table below shows what the services are where the different administrators differ from each other in the UC Control Hub. The administrators can configure additional services via the self-care portal. These will be described in the services chapter below.

Feature or Service	System Admin	Tenant Admin	Group admin
License management on Tenant level	- (*)	-	-
License management on Group Level	Х	Х	-
Administrator management on tenant level	Х	Х	-
Administrator management on Group level	Х	Х	Х
User Management on Tenant level	Х	Х	-
User Management on Group level	Х	Х	Х
Number management on Tenant level (**)	Х	Х	-
Number management on Group level (**)	Х	Х	Х

(\*) The License management on Tenant Level cannot be done via the Self-care portal. This is due to the billable aspect of this matter. It must be done via the Provisioning User Interface (ProvUI) on the APIO Core (or via an automatic OSS process)

() If the Netaxis Number Inventory Management System (NIMS<sup>\*\*</sup>) is included in the solution, the administrators (system-, tenant-, group-) can manage the numbers via the self-care portal. The admins can request numbers from the NIMS solution with the rights shown in the table. If NIMS is not used, if the customer uses its own number management system, the administrators cannot do anything on the management of the numbers in the self-care portal. In this case, it's the System Administrator who needs assign the numbers using the ProvUI on the APIO Core (or via an automatic OSS process). Again, this is due to the billable aspect of this matter.

In general, except for a few services like for example voicemail and call logs, an administrator "A" of one level can do all the things an administrator "B" of a lower level can do, **plus** the things that the administrator "A" can do on his own level.



# 5 Services

This section describes the different services available on the UC Control Hub and its configuration. In many cases the service configuration through the self-care portal is self-explaining. Additional explanation is given by the "?Help" service on top of the UC Control Hub page.

The order of the services in the left side panel can differ from customer to customer. The order can be changed as a configurable item when customizing the SCP for the customer.

Tenant administrators and Group administrators have (more or less) the same services that they can manage. In some cases, the configuration items in the service are different, but the concept stays the same. If there is a service which is only available for Tenant- or for Group administrators, it will be mentioned in the service description.

# 5.1 Home service

This service is already described above when describing the UC Control Hub and the "Getting started on the system".

# 5.2 Statistic service

The Statistic service provides useful insights in the usage of the accounts. (call volumes, average call duration, max simultaneous calls, traffic volumes, etc...) The service is offered to the UC Control Hub self-care portal by the Netaxis **Nemo** solution (**Ne**twork **Mo**nitoring solution) which process the CDRs (Call Detail Records) coming from the BroadWorks application.

### 5.2.1 Tenant and Group/Site reporting

The call statistics can be retrieved on a **Tenant** level and on a **Group or Site** level. Both these options generate reporting capabilities on

- My traffic volumes
- My inbound traffic
- My outbound traffic
- Call durations

For the site level, a specification of the site is needed.

The screen below shows the call statistics (home)page on Tenant Level.





Y	UC Control Hub	😧 Home / 🖿 Test Enterprise Stijn	
$\langle \cdot \rangle$	Test Enterprise Stijn Enterprise	Statistics	
	Home	Tenant Site CDRs	
al	Statistics	My traffic volumes Get insights on how intensively your account is being used	>
<u>e</u>	Call flows		
Do	Accounts	My inbound traffic See from where people are calling your organization.	>
	Sites		
() 1	Licenses	ৎ্ব My outbound traffic	>
Ç	Phone numbers	See to where your employees are calling.	
0	Cloud Connections		
	Mobility	Get insights in the typical duration of calls conducted by your employees.	,
đ	Contacts		
Do.	Admins		
	Schedules		
Ê	Porting requests		
ч	Trunkgroups		
Q	Search		
=	Details		

Clicking on one of the cards will open the requested statistics results page of the capability that was selected, where the administrator can further specify different KPIs for the reporting. By default, the administrator can chose between the **Line type** and **Call type** KPIs.

### 5.2.1.1 Line type

The call statistics can be enriched with Line type information. The different line types are:

- User line
- Auto attendant



Call Center

When picking one of these 3 line types, will give the statics only for that specific line type that has been chosen.

### 5.2.1.2 Call type

Based on a customer request the *Statistics* service, or call analytics, have been enriched with Call type information.

The different call types are:

- External = calls from outside my enterprise
- Internal = calls from within my enterprise and/or group

This call type reporting can occur in the statistic page on tenant level (Tenant & Group/Site), but also on statistic pages from IVR, Call Queue, Contact Center, premium CC, and on the statistics of the End User account page.

#### 5.2.1.3 Example

The screenshot below shows an example of a statistic results page for *My traffic* capability for the last month on a *User-line* KPI and this for an *External* call types.



**Tip**: Scrolling down on the page will give more charts.



The screen below shows the call statistics (home)page on Site level. The different cards will become clickable as soon as the administrator selects a site from the drop-down menu.

#### 5.2.2 CDRs

Another option on the statistics page is the ability to show the CDR information for administrators in a readable and comprehensible overview.

CDRs stands for "Call Detail Records", and for every call that is made or received by a BroadWorks "user" a CDR is generated by the BroadWorks solution.

There is a CDR page on the Statistic service on the Tenant level and on the Group level. When selecting the CDR tab, the page opens with some search criteria where the time-period can be specified, the calling number and the called number. When the filter is set, press the *Search button* to display the CDR information.

The figure below shows the starting page of the CDR service at Tenant level.

Statistics						
Tenant	Site	CDRs				
Time period:	30/03/2023 - 30/03/2023	Calli	ng:	Called:	Display full number	Search 👳 Advanced search
						Download csv
	Calling Number	Called Number	Release Cause	Ringing Time	Call Duration Total Duration	Connect Time Call Ended
				No records to display		

When selecting the Advance search option, a new window will open where you can define more search criteria like:

- the User ID
- the Site ID
- the Route (Group, Enterprise, Network), where:
  - *Group* are intra-group calls.
  - *Enterprise* are intra Enterprise calls.
  - *Network* are external calls.
- The Release cause (Local or Remote)
- The Release party (Local or Remote)



This figure below shows a partial of the Advanced search option. In the solution, the slider shows more option below.

₩ Filters	×
Clear all	
Time Period	
30/03/2023 16:00 - 30/03/2023 17:00 🔺	
Display full number	
Calling Number	
Called Number	
User ID	
Site ID	
Select	
Route	
Select	
Release Cause	
	_
Cancel App	ly

When CDR information is found for the specified criteria, it looks like it is shown in the figure below.



Statistics									
Tenant	Site	CDRs							
Time period:	28/02/2023 - 30/03/2023	▼ Calling:		Called:	🔽 Displa	ıy full number	Search \Xi	Advanced search	
								<u>•</u>	Download csv
	Calling Number	Called Number	Release Cause	Ringing Time	Call Duration	Total Duration	Connect Time	Call Ended	
	+3271125246	+3271125244	Normal	00:00:07	00:00:12	00:00:19	2023-03-14 17:04: 09	2023-03-14 17: 04:21	>
	+3271125244	+27877920043	Call rejected	00:00:00	00:00:00	00:00:00	2023-03-09 14:51: 22	2023-03-09 14: 51:22	>
	+3271125244	+27877920020	Normal	00:00:04	00:00:00	00:00:04	2023-03-09 14:51: 11	2023-03-09 14: 51:11	>
	+3271125244	+27102850049	Normal	00:00:08	00:00:00	00:00:08	2023-03-09 13:58: 12	2023-03-09 13: 58:12	>

The different columns in the table represents the following:

- Calling Number: The number from where the call has been placed.
- Called Number: The number which has been dialled.
- Release Cause: The reason why the call was disconnected.
- Ringing Time: The time that the phone rang.
- Call Duration: The time that the call was established.
- Total Duration: Ringing Time + Call Duration
- Connected Time: Time and date when the call was made/received.
- Call Ended: Time and date that the call was disconnected.

When pushing the blue icon on the right of each CDR line, a right-hand panel opens and shows you more information about that specific CDR.



CDR

Connect Time	2023-03-14 17:04:09		
Call ended	2023-03-14 17:04:21		
Total duration	00:00:12		
Direction	Terminating		
Calling number	+3271125246		
Called number	+3271125244		
Dialed digits			
User Number	+3271125244		
Release cause	Normal		
Releasing party	local		
More Info			

The right-hand panel can show more detailed information of the call which can be useful for support purposes for example.
SOLUTIONS

CDR		×
Connect Time	2023-03-14 17:04:09	
Call ended	2023-03-14 17:04:21	
Total duration	00:00:12	
Direction	Terminating	
Calling number	+3271125246	
Called number	+3271125244	
Dialed digits		
User Number	+3271125244	
Release cause	Normal	
Releasing party	local	
User ID	UAT_BCOE_ent1_g3220_u0711@netaxis.be	
Ringing Time	1678809842.464	
Tenant ID		
Site/Group ID	AT_BCOE_ent1	
Record ID	64109a7c9b84a411a4f86fc6	
Local ID	4523189:0	
Access call ID		
Network call ID		
Route	Group	

On the page you also can download the displayed information as a csv file so it can be used in other applications for other purposes.

## Number digit masking on CDR table.

The CDR service is improved with the ability to mask digits in the shown number. This feature improvement aligns the service with possible GDPR regulations from the Service Provider.

On the CDR page there is still the possibility to show the full number when GDPR regulations would not apply.



When selecting the tick-box, the customer is warned that he should have the correct rights to overrule this feature.



### When the feature is active, the information table looks like this:

Statistics									
Tenant	Site	CDRs							
Time period:	28/02/2023 - 30/03/2023	<ul> <li>Calling</li> </ul>	p.	Called:	Displa	y full number	Search	Advanced search	
								<u>₽</u>	Download csv
	Calling Number	Called Number	Release Cause	Ringing Time	Call Duration	Total Duration	Connect Time	Call Ended	
1	+327112****	+327112****	Normal	00:01:30	00:00:00	00:01:30	2023-03-14 17:09: 00	2023-03-14 17: 09:00	>
2	+327112****	+327112****	Normal	00:01:30	00:00:00	00:01:30	2023-03-14 17:09: 00	2023-03-14 17: 09:00	>

During the configuration and the setup of the CDR service it is possible to define the number of masked digits. In this example this parameter is set to 4.

## 5.3 Call Flows

Call flows are virtual PBX services to which you can assign a phone number and/or extension. (referring to the *Understanding the basics* document)

When such a call flow is called, they will trigger some special behaviour for the call like a voice menu or a hunt group.



The screenshot below shows the (home)page of the Call flow service. The call flow services, the number of hunt groups, Contact Centers, IVRs, etc... can differ from customer to customer depending on what is available in the BroadWorks solution.

Y	UC Control Hub		Home / 💼 Test Er	aterprise Stijn	
$\langle \cdot \rangle$	<b>Test Enterprise Stijn</b> Enterprise	Call flo	ows		
	Home	Call flow: right per	s allow you to setup pol sons in your organisatic	icies to efficiently route ca In	lls to the
.ıl	Statistics	.ŕ.	IVR (2)		>
وننة	Call flows	Q	Call Queues (0)		>
Do	Accounts				
	Sites	<b>G</b> <sup>†</sup>	Call Centers (0)		>
O	Licenses	<b>∩</b> <sup>++</sup>	Premium Call Centers	5 (0)	>
S	Phone numbers	em	Hunt Groups (0)		>
$\bigcirc$	Cloud Connections				
Q	Mobility				
<u>a</u> ()	Contacts				
Do Do	Admins				
	Schedules				
Ē	Porting requests				
Ч	Trunkgroups				
Q	Search				
	Details				

### 5.3.1 IVR

The Interactive Voice Response "IVR" or also known as "Auto attendants" serves as an automated receptionist that answers the phone and provides a personalized message to callers with options for connecting to an operator, dialling by name or extension, leaving a message, listening to an an-



nouncement, or connecting to configurable destinations (for example, 1 = Marketing, 2 = Sales, and so on).

An IVR is a licensed item on the BroadWorks solution, which means that a license is needed to set up a voice menu. There are 2 types of IVRs with the following differences:

Feature	AA - Basic	AA - Standard
Max amount of menu levels	1	Unlimited
Default menu	Yes	Yes
After hours menu	Yes	yes
Holiday menu	No	Yes

### Example:

The **Basic**, single-level IVR (Auto Attendant) has only one menu level, for example:

- 1. English
- 2. Dutch
- 3. French.

The **Standard**, multi-level IVR (Auto Attendant) can have two levels, for example:

- 1. English:
  - 1. Marketing
  - 2. Sales
  - 3. Accounting
- 2. French
  - 1. Marketing
  - 2. Ventes
  - 3. Comptabilité
- 3. Dutch
  - 1. Marketing
  - 2. Verkoop
  - 3. Boekhouding

warning: IVRs are a billable service in the BroadWorks solution and therefore not authorized with unlimited amounts. It is only possible to create IVRs in groups to which Auto Attendant licenses are assigned.



## 5.3.1.1 Setting up an IVR

An IVR needs to be set up in the group/site that requires that IVR and that has the proper license assigned to it. Click on *Call flows* in the left-hand menu. Then click on **IVR**:



When licenses are available, the *Add* button will be enabled. This *Add* button will launch a wizard.



Y	Home / E Acme Inc. / Sample_	Group			? Help	⊕ en
	< IVR					
ŵ	An IVR is an interactive voice menu. IVRs answer a callers through a menu in order to finally arrive to Overview Statistics	utomatically to incoming calls and guide the right user or users.				
Do	Q Search				Delete	+ Add
ъ	Name †	Type †	Department †4	Phone number $^{\dagger}_{\downarrow}$	Extension	t <sub>4</sub>
0			No records to display			
e						

The IVR Setup wizard looks the same no matter the IVR type (Basic vs Standard) selected.

First specify a name and the required type. Select *Standard* as Type if you want an IVR with multi-level menus.

-	2	3	<b>(1</b> )
Create IVR	Phone number optional	Extension optional	Feature options optional
lame:* My IVR		Use same Nar	me at CLI name
anguage: English		•	
efault Timezone: 🦲	Select		
/pe*			
O Basic (single-l	evel) - 1 left		
Standard (mull	lti-level) - 1 left		

Now select a phone number on which the attendant will be listening:



	- 2	3	<b>(</b> )
reate IVR	optional	optional	optional
elect number from group level		Selected number:	
Q Search		✓ +3212683285	
O No number			
+3212683277			
+3212683284			
• +3212683285			
+3212683286			
+3212683287		U	

In the next step the extension will be calculated based on the extension settings configured for the group. However, it is possible to overwrite the default extension:

**net**axis

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<b>V</b>	<b>v</b>	3	4
Create IVR	Phone number optional	<b>Extension</b> optional	Feature options optional
ixtension 3285			

Now the IVR will be created.

**net**axis

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In the last step, it may be possible to assign additional services (such as call logs or power pack):



eate IVR	Phone number optional	Extension optional	Feature options optional
ditional licenses:			
Power pack for IVR Value added servic	s, huntgroups and call centers (0 left) es for service users		
Call logs for IVRs, h	untgroups and call centers (5 left)		
Voicemail for IVRs, Voicemail for virtua	huntgroups and call centers (0 left) al users		

## 5.3.1.2 IVR configuration

When the IVR is created successfully, it is possible to drill down to the IVR and manage the following configuration.

The Figure below show an example of a list of IVRs that are created on the Headquarters of the Enterprise. (see the group name in the breadcrumbs).



yuc 🤟	C Control Hub	Home / Ba Te	est Enterprise Stijn /	Groups / 🖽 Headquarters			Show advanced features 💽	? Help 💮 EN	9 C
( Head	adquarters	< IVR							
BB Home	me	An IVR is an interactive voic callers through a menu in or	e menu. IVRs answer rder to finally arrive t	rautomatically to incoming calls and guide to the right user or users.					
te catr	Iflows	Overview	Statistics						
		Q, Search						🛈 📋 Delete	+ Add
Accor	ntacts			Name	Туре	Phone number	Extension		
	tistics	0	1	Salles	Standard	+3225403820	3820	ē	ĩ
🔍 Phan	ane numbers	0	2	Support	Standard	+3225403850	3850	6	Ì
Mobi	bility								
말 Licen	enses								
🗄 Schei	edules								
😤 Depa	partments								
🕸 Callin	ling settings								
Co Devic	vices								
🖾 Medi	dia								
ጊ, Truni	nking								
ംട്ട് Admi	mins								
🗊 Detai	tails								

Selecting one of the IVR allows entering the configuration of the specific IVR.

The screenshot below shows a short description about the different functionalities or services that can be configured for the IVR.



The **Home** page, which is the landing page when entering an IVR configuration will show the Business Hour (BH) and the Holiday Hour (HH) cards. These cards can be used to quickly go to either the *Menus* configurations or the *Schedules* configurations of both time schedules (BH and HH).

Remark: The holiday schedules are only available with the Standard license type.



Y	UC Control Hub	🕴 Home / 🖿 Test Enterprise Stijn / Groups / 🗍 Headquarters / Ivrs / 🔥 Sales			
$\bigcirc$	Sales IVR	Sales			
88	Home	BH Business hours HH Holidays	HH Holidays		
Ç	Recent calls	맘 Menu -	ule →		
	Menus				
PL S	Incoming calls				
r.	Outgoing calls				
	Schedules				
90	Voicemail				
(a)	Media				
=	Details				

The **Recent Calls** page show on overview of the recent calls for that IVR. The administrator needs to have the corrects rights to see the Recent Calls (or call logs) from the IVR.

The **Menus** page give the ability to configure a voice menu for the *Business Hours*, a menu for the *After hours* and one for the *Holiday period*. On the page is also a tab to configure the *Submenus* if they were used in one of the voice menu configurations.

- To setup the menus, select *Menus* in the left-hand panel.
- To update the menu structure, click the *Edit* button.



Y		Tenants	/ … / 🛄 Test	Group / 🚠 TestDoc				
h	Menu	IS			Case of - only tw	a sing vo tab	gle-level IVR: os (Schedules)	
品	Busine	ss hours	After	hours	- no Sul	omeni	us tab	
Ð	∎) Gree	eting:	Default		1	64446446		
i≡	Key co	nfiguration:	/	_				
C.	Keys*	Description	1	Action*			Action data	
23	0	group op	erator	Transfe	r To Operator	~		
00	1	dial by ex	tension	Extensi	on Dialing	٠		
曲	2	dial by na	me	Name [	Dialing	Ψ.		
ľ								

# Case 1: Auto Attendant - Basic, with only one menu level.

Click on the *Edit* button (pencil icon).

Y		Tenants	/ / 🛄 Test Group / 📑	TestDoc					? Help	⊕ en	(i)	Θ
ф	Men	us										
88	Busine	ess hours	After hours									
Ð	∢) Gre	eting:	Default		1				Save after	editing su	b-mei	nus
I	Key co	onfiguration			Creat	te sub-menus	or select existing	ones		✓ Save	× c	ancel
C'	Keys*	Descriptio	n	Action*		Action data						
23	0	group o	perator	Transfer To Operator		•		Û				
00	1	dial by e	extension	Extension Dialing	1	. /		۵				
曲	2	dial by n	ame	Name Dialing		. /		Ū				
				I		. /		Ū				
Ľ	+	Menu keys (	0 - 9, *, # are available for select	Transfer To Operator								
				Transfer To Number With	Prompt							
				Transfer To Number								
				Play Announcement								

Create or select submenus then Save.



#### Case 2 : Auto Attendant - Standard, with multi-level menus

The picture below shows the Main Menu Main IVR page (before editing).

At this stage, it is possible to create/edit sub-menus right from the Main Menu tab.

	→	Menu Busine	Tena JS ess hours	nts / 🥶 / 🛄 Brussels Offic After hours	e / 👬 Main Number Holidays	Submenus	Case of a - more tab - a Subme , - the Main	multi-level IVR: os (Schedules) enus tab Menu (4 keys)
		Main l'	VR 🥖	rg: Default	/			
Subme	nus		Key*	Description	Action*	1	Action data	
can be	23		0	auto repeat	Transfer To Operator	*	2110	
edited		+	1	Nederlands	Go To Submenu	*	NL - Menu	
(+ is bl	ue)	+	2	French	Go To Submenu	*	FR menu	
	F	+	3	English	Go To Submenu		EN - menu	
	-	Call	s will be a er 15	utomatically forwarded to 2110 seconds of inactivity. (Th	is time applies to all menus)			

To edit the Main Menu, click the *Edit* button, make the changes that are needed, and then click on *Save*.

8	Business hours	After hours	Holidays	Submenus					
9	Main IVR Subme	enus are not edita	ble (black +) while	the Main	menu is in Edi	t mode		✓ S	ave × Cancel
	Greeting	Default	1						
	Ker Descr	iption	Action*		Action data				
	0 auto	o repeat	Transfer To Operator		2110		Ē		1
	+ 1 Nec	lerlands	Go To Submenu		NL - Menu		Û		
	+ 2 Free	nch	Go To Submenu		FR menu	•	Û		
	+ 3 Eng	lish	Go To Submenu	-	EN - menu		0		
	+ Menu key	s 0 - 9, *, # are available for s	election. Use the blu	e + to ad	d keys (menu i	tems) to th	is Main me	nu, then c	۱ lick Save
	Calls will be automati	cally forwarded to 2110							

As soon as the main menu is saved, it is possible again to expand the sub-menus and start editing them.



The Submenus tab allows editing the sub-menus individually.

**Greetings** and other announcements can be selected from either the attendant's repository or from the group's announcement repository. It is possible to upload or record announcements via the browser. Only announcements recorded beforehand appear in the list.

After hours	Holidays	Submenus	
Default n eat	<ul> <li>Edit greetin</li> <li>Default</li> <li>Personal greeting</li> </ul>	ng I ~ Accueil prédéfini.WAV	×
ds	Go To Submenu	Cancel Save	
orwarded to 2110		1	

Select Default or specific announcement

**Announcements** are managed through the *Media* menu item in the left-hand panel. Listed announcements can be played for control using the *Play* button in front of the file name. Media files are supposed to be .WAV files, but there is also a way to transcode .mp3 files which are more used by customers.





#### Automatic forward after an inactivity timeout is defined once for all menus.

after 15 seconds of inactivity. (	This time applies to all menus)

### Define timeout duration for all menus

To manage the **business hours and holidays schedules** for this IVR (or Auto Attendant), go to the corresponding menu item in the left-hand menu. There is it possible to select *a group schedule* that will serve as business or holiday hour schedule.

7	۳	Home / 🚥 / 🗍 Sample	e_Group / 👬 My IVR						
(Ħ	Schedul	e							
窳	Business I	Holida	iy						
49	Busines	s hours Every day, All d	ay						
iΞ		Mon	2	Edit business hours	Se	lect			Sat
Ľ	01:00		Sele	ect from schedule library	ag	roup sch	nedule	- 8	
S	02:00		C	pening hours	as	Busines	s hours		
	03:00 04:00				sch	nedule			
Ø	05:00				0	Cancel	Save	- 88	
	06:00						_	-8	
	07:00								
	08:00	08:00 : 12:00	08:00 : 12:00	08:00 : 12:00	08:00 : 12:00	ľ	08:00 : 12:00		
	09:00								
	10:00								
	11:00								

**Note:** if no schedules are defined yet on group level, first create a schedule on group level.

Once the schedule is selected, it is possible to edit the time schedule immediately from this screen similar to for example a Google agenda. Use the *Add* button to add a new period and select an existing period to edit or delete it.



Y		Home / 🚥 / 🛄 Sampl	e_Group / 抗 My IVR					? Help
(H)	Schedul	e						
命	Business	Holida	ау					
0	🖞 Busines	s hours Opening hours			1			+ Add
i		Mon	Tue	Wed	Thu	Fri	Sat	Sun
C'é	01:00							
62	02:00							
8	03:00							
	04:00							
E	05:00							
	06:00							
	07:00							
	08:00	08:00 : 12:00	08:00 : 12:00	08:00 : 12:00	08:00 : 12:00	08:00 : 12:00		
	09:00							
	10:00							
	11:00							

**Holiday schedules** On the screen, the use of Holiday schedules can be switched on. When active, there is a drop-down box to select the Holidays hours. Already existing holiday schedules on Group level and on Tenant level will be presented, but also the possibility to create a new one.

Y	UC Control Hub	Home /	••• / Ivrs / # Sales				Show advanced features		? Help	🌐 en	5	θ
$\langle $	Sales IVR	Schedule										
	Home	Business hours	Holiday									
ę	Recent calls	Use holidays										
	Menus	🖨 Holiday hours	Lunch Break	•								
P.L.	Incoming calls		GROUP SCHEDULES					+ /	Add	ti) Im	port holi	idays
			Lunch Break									
2	Outgoing calls	Q Search	TENANT SCHEDULES	t	•	Today		Page vie	ew:	List	🛅 Ca	lendar
	Schedules	Start	Summer Holiday Belgium			Eve	nt				Actio	ns
0.0	Voicemail		Summer Holiday US									
		1 Mon Jul 17	+ Add new schedule	)23		Sum	mer Holiday				05	Ū
	Media											
	Details							10	* per	page	< 1	>

The page give the possibility to

- *Add* a new holiday schedule. When clicking on this add button, a new window will pop-up where the new holiday schedule can be configured.
- To *import Holidays*. Selecting this action, will open a window where the year and the country need



to be introduced for which the known public holidays will be included in the holiday schedule overview.

- switch between a list view of the holidays and a calendar view. A list view gives the advantage that recurring holidays over multiple years are easier to visualize then in a calendar view (where you need to scroll to the specific year).
- search for a specific holiday
- show the holidays for a specific year
- show the view of "Today".

The below screenshot shows an example of a Holiday schedule on the Sales IVR of the Enterprise.

>	UC Control Hub	🚺 Home / 🚥 / Ivrs / 🕂	1 Sales	Show advanced featur	res 💽 ? Help 🌐 EN 🖏 🕙
<	Sales	Schedule			
	Home	Business hours Holid	lay		
C	Recent calls	Use holidays			
	Menus	Holiday hours	•		
PL	Incoming calls		✓ Save   X Cancel		+ Add 🖬 Import holidays
R.	Outgoing calls	Q Search	Show: 2024 -	Today	Page view: 🔚 List 🗎 Calendar
<b></b>	Schedules	Start	End	Event	Actions
00	Voicemail	1 Mon Apr 22, 2024 12:30	Fri Apr 26, 2024 13:30	Lunch Break	1
4	Media				
	Details				10 v per page < 1

**Incoming and Outgoing call** On the IVR configuration page, there is the possibility to configure some incoming and outgoing calls settings. What is available, or shown in the portal, depends on what is activated for that group and/or account. It's possible that a certain account can't access the incoming calls setting of a certain group, and only has access to the outgoing calls setting for that group.

The below screenshots are an example of what possible services can be configured on IVR / Auto attendants.

For the *Incoming Calls*, a call forwarding service can be set. This allows the administrator to define what needs to be done with the call in case of "No answering" or in case of "Busy".



Y	UC Control Hub	Enants / ···· / Ivrs / 👖 Main Number	
$\checkmark$	Main number IVR	Incoming calls	
	Home	Call Forwarding Services (2)	
C	Recent calls		
	Menus		
ويخ	Incoming calls		
P.Z	Outgoing calls		
	Schedules		
ď	Media		
E	Details		
	< Call For	warding	
	Always	Disabled 🧪	
	Busy	Disabled 🧪	

Other incoming call services which can be made available are:

- Selective forwarding rules
- Call blocking rules

Whether or not they have shown in the self-care portal, depends on how the IVR configuration has been set up.



For the Outgoing calls, an "Outgoing calls plan" can be set, which allows to view the outgoing calling plan rules. These outgoing calling plan rules can be set (or configured) at the calling setting at Group and/or Tenant level.

•	J	UC Control Hub	٠	Tenants / ••• /	Ivrs / 🚠 Main Numb	er	
	$\checkmark$	<b>Main number</b> IVR	Outgo	ing calls			
		Home	Outgoing Only an a	g calling plan allows to Idministrator can chai	o view the calling plan runge which call types are	les for outgoing calls. permitted.	
	હ	Recent calls	🧪 Ma	anage auth codes			
	88	Menus	Custom s	ettings		✓ Save   X Cancel	
	C'	Incoming calls		Name	Originating	Redirecting	
	وي	Outgoing calls	1	Intern	Allow	Allow	
		Schedules	2	Toll Free	Allow	Allow	
		Media	3	National	Allow	Allow	
	E	Details	4	International	Allow	Allow	

**Details** This service gives more information about some details of the IVR (ID, name, CLI name, etc..), the feature options that are assigned and the phone numbers that are linked to the IVR.



(For security reasons, some of the information about phone numbers and ID's has been masked.)

## 5.3.2 Call Queues

**net**axis

Before explaining this service, it is worth mentioning that the Call Queue service on the self-care portal is corresponding with the *Call Center - Basic* service (or service packs) on the BroadWorks solution. To be complete, the Broadworks Call Center is offered in 3 flavours:

- A **Basic call center** is designed to support a simple call distribution and queuing scenario, such as a front-office receptionist or a small work group.
- A **Standard call center** is designed to support a normal call center environment where flexible routing options are needed and the agent's workflow dictates the need for ACD states such as Available, Unavailable, and Wrap-up.
- A **Premium call center** is designed to provide the most advanced set of routing and call management options to support a formal call center environment.

On Tenant level the administrator will only have a view on the call queues. Changing or adding new call queues is done on group level, so in/for a specific group.



The screenshot below shows the call queue page on Tenant level. There is no indication to add an new call queue.

9	UC Control Hub	😧 Tenants / 🗈 Netay	kis Solutions		Show advanced features	? Help 🌐 EN 👔 🍎 😝
<	Netaxis Solutions Enterprise	< Call Queues				
	Home	Overview Statis	stics			
	Statistics	Q Search				
	Call flows	Name	Department	Phone number	Extension	Site
0	Accounts	1 Sales		+3232325301	5301	PROD7961_g2465
	Sites					
	Licenses					iv v per page
6 E	Phone numbers					

The screenshot below shows the call queue page on Group level (the group name is mentioned in the breadcrumbs on top of the screen). There is also the possibility to activate/de-activate the call queue (on/Off switch).

5	UC Control Hub	E Tenar	nts / 🚥 / Groups / 🔝 Brussels Office		Show advanced features	? Help 🕀 EN 🤇	0000
< 	Brussels office Site	< Call qu	eues				
	Home	Overview	Statistics				
ونن	Call flows	Q Search				Delete	+ Add
۔ ۵	Accounts		Name	Policy	Phone number	Extension	
1	Contacts	1	Sales	Regular	+3232325301	5301	Û
h.	Statistics					10 👻 per page	< 1 →
ę	Phone numbers						
	Mobility						

If the customer has the **Call statistic** service enabled on the solution, there will be a *Statistics* tab on the Call Queue page giving the administrator a view on the statistics of their call queues.

By default, the following KPIs are available:

- Terminating calls,
- Waiting time,
- Average call duration.

These KPIs can be customized through the columns drop-down box (show or hide certain columns per KPI).

KPIs, for the following call types:



- All
- Internal
- External

The screenshot below gives an example from a Statistics page on the Call Queue service.

< Call queues											
Overview Statistics											
Q Search											
Time period: 04/22/2024 - 04/23/2024  Columns: #incoming (Ter +7 Other Call type: All											
								👲 Download			
Table view:											
Name		Termi	nating calls		Waitin	ig time	Average call duration				
	# incoming $^{\dagger_{\!$	Answered 🗘	Not answered $\hat{J}_{\mu}$	Overflowed $^{\dagger _{\downarrow }}$	Ringing ⁺₊	Waiting ⁺₊	All ⁺₊	Total <sup>†</sup> ₊			
1 Sales (+3232325301)	0	0	0	0	0	0	0	0			

When adding a new call queue, a configuration wizard window will open where the administrator needs to configure the mandatory configuration items (indicated with a \*) and where he could put some information for the optional items. The wizard is self-explaining, the administrator just needs to follow the different steps.

**Note** that for the Call queue service the *phone number is optional*.



	2	3	4	5	
Details	Phone numbers optional	Extension optional	Feature options optional	Assign agents optional	
Name:*		E	Use same Name at CLI name		
Language:	English	*			
Timezone	Select	•			
Policy:*	) regular 🔷 circular 🔷	uniform Simultar	neous 🔵 weighted		
Allowspace	nt to join:				
Allows ager					

Selecting one of the call queues from the list, allows the administrator to enter the call queue configuration pages. The screenshot below shows an example of a "Sales call queue" configuration page.





The services that can be configured on the call queue are:

**Settings:** In the settings page the administrator can configure the following items:

- Queue settings: configure the queue length and the call center routing policy.
- Bounced settings: configure the call center routing policy for call which haven't been answered by any agent.
- Overflow settings: decide what should happen when more calls are received in the call queue than the agents can handle.
- Agent settings: allow agents to join the call queue and set call waiting on agents.
- Advanced settings: some advanced settings which allows callers to escape out of the queue and whether or not the agent receives a ringing when a call is offered.

netaxis



ý	UC Control Hub	: Tenants / … / Call Queues / ୠ Sales	
$\checkmark$	<b>Sales</b> Call Queue	Settings	
礅	Settings	Queue settings Configure the queue length and call center routing policy	>
<u>e</u>	Recent calls		
00	Agents	Bounced settings Configure the call center routing policy for calls unanswered by agents	>
PL	Incoming calls		
R.	Outgoing calls	Overflow settings Decide what should happen in case more calls are received than the queue can handle	>
la"	Media		
E	Details	Agent settings	>
		Advanced settings	>

**Recent Calls:** The recent calls give a view on the call logs for the specific call queue. Note that the call logs will only be shown to those accounts with a proper profile.

**Agents:** When the call queue is configured to let agents join, the administrator can add agents to this call queue. The administrator can define if it should only be agents who belong to this group or from the whole tenant (Enterprise).

The screenshot below gives an example of how the list of agents would look like.



1		UC Control Hub		Home / … / Call Q	ueues / 🥰 Sales Belgiu	m		Show advanced features 🗾	? Help	🌐 en	5	θ
(	$\langle \rangle$	Sales Belgium Call Queue	Agent	S								
1	# \$	Home	You can r	eorder the agents using dr			✓ Save	+ -	Add ancel			
	10		Order	Name	Phone number	Extension	Department	Email				
	G	Recent calls	1	Anton Ego	+327	015	N/A	Anton.ego@			ī	Ū
1	2	Agents	2	Alfredo Linguini	+327	013	N/A	Alfred.Linguini@			Ţ	Ū
,	L'	Incoming calls										
1	2	Outgoing calls										
ι	4	Media										
(	Ξ	Details										

(Note that some of the information on the screenshot of the agents is masked for security reasons.)

Selecting one of the agents allows: - to change the status of the agent, - have a view to which call queues the agent belongs to, - activate / de-activate the agent for that call queue by turning on/off the (on/off) switch.



Status	Sign-Out ~	
	Available	
	Unavailable	
This call ce	Wrap-Up	
	Sign-In	Call Queue
	Sign-Out	Latt Queue
Na	ame:	Sales Belgium
Ph	none number:	No phone number
Ex	tension:	No extension
ID	:	Test_Ent_STEV
Other call c	enters to whicl	h agent belongs

### **Incoming and Outgoing calls**

On the Call Queue page, there is also the possibility to configure some incoming and outgoing calls settings (similar as on the IVR/Auto Attendant configuration page).

More information on this can be found on the IVR section.

## Media

The media service on the Call Queue service, differs from the IVR in the *Settings* configuration items. Through the settings tab it is possible to customize the voice promts that are played to the callers when they are waiting in the queue. The announcements that are used within these voice prompts,



can be managed through the other tabs on the screen - *Dedicated Announcements* and/or *Group Announcements* which are used/created on Group level.

Y	UC Control Hub			Home / 🛄 / Call Queues / 🥳 Sales Belgium	
<	Sales Belgium Call Queue	M	edia	Dedicated appouncements Group appour	ncements
	Home	Me	essages a	allow you to customize the Call center voice prompts that are played to caller queue. Every message has its own order in sequence, depending on the	s while
鐐	Settings	CO	nfigurati	ons that you make in settings of each message.	
Co	Recent calls				1
40x	Agents	1		Entrance message	
PL	Incoming calls			Default	
P.	Outgoing calls				
ľ	Media			Estimated wait message	1
	Details		Announce the wait time for callers once the wait time 100 minutes or lower  Play time high volume message		
				Waiting music Announcement Default	/
		2		Comfort Message  Time between comfort messages 10 Announcement Default	

### Details

The Details service gives more information about some details of the call queue (ID, name, CLI name, etc..), the feature options that are assigned and the phone numbers that are linked to that specific call queue.



### 5.3.3 Call Center

The Call Center configuration is similar to the Call Queue configuration. The Call Center (CC) in the self-care portal corresponds with the *Call Center - Standard* service (or service packs) in the Broadworks solution and its corresponding license structure.

Again, a **Statistics** tab is available on the Call Center call flows if the customer has enebled the Call Statistics service on their solution.

< Call C	Centers								
Overview	Statistics								
Q Search									
Time period: 0	04/22/2024 - 04/23/2024	Columns: #	incoming (Ter +7	7 Other 🔹 Call ty	pe: All		•		
									👲 Down
Table view:									
	Name		Termi	nating calls		Waitin	ig time	Call o	luration
		# incoming $^{t_{\downarrow}}$	Answered $^{\dagger}_{\downarrow}$	Not answered $^{\dagger }_{\downarrow }$	Overflowed $^{\dagger } \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $	Ringing †₊	Waiting †	All ¹₊	Total †₊
1	CC_Standard (+3232325310)	0	0	0	0	0	0	0	0
2	Call Center (+3212683054)	0	0	0	0	0	0	0	0

*Remark:* Be aware that when adding a new Call center, the phone number is not optional anymore. The call center requires a phones number. If the group does not have any phone numbers available anymore, the wizard will not continue to the next step.

Y	UC Control Hub	Home / …	/ Groups / 🎚 Headquarters		Show advanced features	🔵 ? Help 🌐 EN	5 <b>9</b>
$\langle \rangle$	Headquarters Site	< Call Centers					
	Home	Overview	Statistics				
R::	Call flows	Q Search				Delete	+ Add
0	Accounts		Name	Policy	Phone number	Extension	
	Contacts	1	Support France	Circular	+3375	1017	Ū
	Chalifornia						
.11	Statistics					10 v per page	< 1 >

When a call center is created, its configuration is accessible by clicking on the name of the CC.



J	UC Control Hub	Home / …	/ Groups / 🗒 Headquarters		Show advanced features	🖸 🤌 Help 🌐 EN	3 <b>8</b>
$\langle \rangle$	Headquarters Site	< Call Centers					
	Home	Overview	Statistics				
وين	Call flows	Q Search				🔟 Delete	+ Add
6	Accounts		Name	Policy	Phone number	Extension	
2	Contacts	1	Support France	Circular	+3375	1017	Ū
.ıl	Statistics					10 👻 per page	< 1 >

The screenshot below gives you a view on how these configuration pages look like.

Y	UC Control Hub	Home / / Call Centers ;	/ ੵ Support France		Show advanced	ieatures 👥	? Help	30
$\bigcirc$	Support France Call Center	Dashboard						
88	Home		0 00	0:00:00	Inbound calls			G
्र	Settings		aued calls					
હ	Recent calls	1 agents online cur from 2 c	rrently in Ave queue tin	erage waiting ne (last hour)	Sori	y, currently no d	lata is available	
۵۵ (۵)	Agents	Auto refresh		G				
P.L	Incoming calls		G	o to agents →	Waiting times	c	Agent statistics	C
S.	Outgoing calls	Call logs			04/24/2024 - 04/24/2024	-	04/24/2024 - 04/24/202	24 🔻
( <sup>4</sup> )	Media	You don't have the appropriate rights t	to fetch this information Go to	recent calls $\rightarrow$	00:00:00 Average wait ti	me	$\bigcirc$	
<u></u>	Supervisors							·
=	Details	Forward all my calls Destination: Phone number	Hide my numb Do not disturb	er O	Average abandentime	oned	● 0 ⊙ ● 0.1	

#### Home service

The *Dashboard* on the *Home* service give already a status overview of the contact center. It shows how many agents are available for receiving calls, it shows then number of calls in the queue and the average waiting time.

Other cards on the dashboard show additional information about: - inbound calls, - forward my calls, - waiting times, - agent statistics, - ...

#### Settings

In the settings page the administrator can further configure the call center. He can set:

(the settings are self-explaining)



- Queue settings
- Bounced settings
- Overflow settings
- Agent settings
- Advanced settings

The above settings are similar to the ones of the Call Queue service. The additional settings the call center service offers are:

- Stranded calls
- Daily report configuration (set up a daily mail report)
- Agent unavailable codes

### 5.3.3.1 Stranded Calls

This is a setting which configures the call center routing policy for calls stranded in the queue when all the agents are signed-out or unavailable.

There are 2 tabs to define the routing policies. One for the case that all agents left, and the other one in case the agents are unavailable.

The below screenshots show these 2 policies and their configuration options.

All agents left	All agents unavailable	
Action:		
<ul> <li>Leave in th</li> <li>Transfer to</li> </ul>	p phone number	
O Perform b	usy treatment	
		✓ Save X Cancel



All agents left	All agent	s unavailable		
Also apply when at least	1	agents have unavailable code:	Select	•
Action: Leave in the queu	Je			
<ul><li>Transfer to phon</li><li>Perform busy tree</li></ul>	e number atment			
			✓ Save	X Cancel

### 5.3.3.2 Daily report configuration

As from the release 2.5.0 it is possible to schedule daily basic reports for a call center. These reports will include similar statistics as we have in the user interface (UI).

- 1. stats on the dashboard like average waiting time etc.
- 2. stats per agent (like time online etc.)

You can find the *Daily report configuration* on the *Setting* page of the *Call Center (Standard and Pre-mium)*.



J	UC Control Hub	🚺 Tenants / 🚥 / 🗒 Headquarters / 🥳 Star	idard Ca
<b>G</b> <sup>†</sup>	Standard call center for Call Center	Settings	
	Dashboard	Queue settings Configure the queue length and call center routing policy	>
鐐	Settings	Bounced settings	
C	Recent calls	Configure the call center routing policy for calls unanswered by agents	>
(O)	Agents	Overflow settings	>
2	Supervisors	Decide what should happen in case more calls are received than the queue can handle	-
e l	Incoming calls	Stranded calls	
S	Outgoing calls	in the queue when all the agents are signed-out or unavailable	
ľ	Media	Daily report configuration	
E	Details	Setup a daily mail report on the performance of the call center and its agents	>
		Agent settings	>
		Advanced settings	>
		Agent unavailable codes	>

Accessing the configuration pane of this feature, it will show you:

- The option to turn the feature on/off,
- The option to choose the frequency of the report (each 30 min or each 60 min).
- And of you need to fill in an email address which can be used to send the reports to.



< Daily report co	onfiguration		
Reporting period	60	·	
E-mail address(es)	dfsd@gmail.com		
			✓ Save X Cancel

#### **Recent calls**

The recent calls show the call logs from the call center.

#### Agents

The agent page shows gives an overview of the agents that are assigned to the call center.

9	? Help	🌐 en	Э	θ
Support France Agents				
Home List Statistics				
straining Settings				
Recent calls				
Agents 1 agents online Queued calls Average waiting from 2 queue time				
😢 Incoming calls				
°্ব Outgoing calls			+	Add
亿 Media You can reorder the agents using drag and drop		✓ Save	× Ca	ancel
Supervisors Order Name Phone number Extension Department Email	Status			
Details 1 Alfredo Linguini +3375 1013 N/A stijn.everaert+AL@netaxis.b	e • Online			Ū
2 Sid Phillips N/A N/A N/A stijn.everaert+SP@netaxis.b	e • Offline			Ū

By selecting one the agents, the administrator:

- can change the status of the agent,
- has a view to which call queues the agent belongs to,



• can activate / de-activate the agent for that call queue by turning on/off the (on/off) switch.

The same as for the Call queue service, the administrator can add agents to the call center. He'll have the possibility to choose between agents from this group only or from the whole tenant.

### Incoming and Outgoing calls

Similar as for the call queue service, incoming and outgoing services can be added to the call center calls.

The following are an example of services that can be assigned to the *Incoming calls*:

- Call forwarding services
- Call blocking (create a "Black list" and/or a "White list" of persons (names, phone numbers) based on some rules to allow or block their calls to the call center according to a certain schedule (time of day, period, etc..)
- Call notify (send a notification to a person (email address) when a call comes in)
- Pre-alerting announcement (play an announcement to a caller (or a certain caller) before the call is connected).
- Selective forwarding (set up a call forwarding that will only be applied during certain time periods or specific days)

For the *Outgoing calls* there is also the possibility to set up some calling plan rules for outgoing calls.

### Media

The media service is similar to the one on the call queue service.

### Supervisors

The call center service, different as for the Call Queue service, can assign a Supervisor to a call center.

A supervisor is somebody who monitors a team of agents. You can consider this person as a coach who has the possibility to listen to the calls made by the agents (for training purposes), who does a follow up of the agents, who checks the reports, etc.

Note that anybody can be a supervisor for the call center. You don't need to be an agent to be a supervisor. As a call center supervisor, it must be possible to indicate which agents he/she is allowed to monitor.

When adding a supervisor, you need to follow the wizard in the Supervisors service for Contact Centers and/or Premium Contact Centers. If you have chosen a supervisor, you can then assign agents from a list to this supervisor.



•	2	
Add supervisors	Add supervised agents optional	
Select users from the list	Selected users	
Q Search		
Name		
Alfredo Linguini		
Anton Ego		
Sid Phillips		
🗌 John Doe		

#### Details

The Details service gives more information about some details of the call center (ID, name, CLI name, etc..), the feature options that are assigned and the phone numbers that are linked to that specific call queue.

### 5.3.3.3 Agent Unavailable codes

Agent unavailable codes are configurable attributes that are applied when an agent becomes unavailable. Agents may select a reason for changing their agent (ACD) states to "Unavailable", for example when going for lunch, when visiting the toilets, taking a coffee break or a personal break. Call center managers can use this data to better understand the performance of their agents.

Each company can define many "Agent Unavailable codes" to track the performance of agents.

Unavailable codes are also known as Reason Codes or Walk-away codes.

The unavailable codes are dedicated to the call center service, and can by used by each one of the call centers in the organization or company.

They can be set on a Call Center (BroadWorks standard Call Center) and on a Premium Call Center.


If the tenant is created as Enterprise, then the Unavailable codes are at Enterprise level, if the tenant is created as Service Provider, then the Unavailable codes are at Group level.

Enabling the switch next to Enable Unavailable Codes for agents, gives the possibility to use default codes with the options as shown on the below figure.

Y	Tenants / 🔝 UAT_BCOE_ent1			Show advanced features	FAQ   ? Help 🗿 🕀
$\checkmark$	< Call Centers				
7.0	Overview Statistics	Unavailable codes			
80	Agent Unavailable codes can be used by agent to	o provide more information wi	y they are unavailable.		
al	Enable Unavailable Codes for agents				
2					
2	Default codes:				
	When agent enables Do Not Disturb:	None			
	When agent receives a personal call:	None			
e	After consecutive bounced calls:	None			
e	When unreachable (e.g. not registered):	None			
0	Force use of a default code:	None •			
		4	Save X Cancel		
11					
*8	Q, Search	08	Delete + Add		
80	Code 1	Description f			
8	1 0999	Lanch	/ 8		
ъ	2 0979	Lanch	/ 8		
Q	3 💽 0989	Lanch	/ 8		
E	10 - per p	page 🕻 1 2	3 10 >		

There is also the possibility to create your own codes, even when using the default ones.

Disabling the switch (see the figure below), prevents you from creating your own unavailable codes.



J		Ter	ants / 🛅 U	AT_BCOE_ent1				
$\checkmark$	<	Call	Centers					
	Overvi	ew	1	Statistics	Unavailable co	des		
20	Add, m	odify	or remove Age	ent Unavailable Codes for	Call Centers			
.1	Er	abled	Agent Unava	lable Codes			a	
9								
Do	٩	Sear	rch			B Delete	+	Add
				Outo 4	Description			
۲				Code 1	Description	4		-
2		1		0999	Lanch		/	8
-		2		0979	Lanch		/	8
$\bigcirc$		3		0989	Lanch		/	8
				10 + per page	< 1	2 3	10	>
1.0								

It is not possible to disable the Enable Agent Unavailable Code when there are still agents that have the contact centers configured in their routing policies (when they are still part of a call center).

When adding a new code, it is enough to enter the new code and give it a description as shown in the figures below.

Code: Description:
Code: Description:
Description:

Editing a code, gives the possibility to change the description of the code.



Edit c	ode		
Code:	0999		
Description:	lunch		
		Cancel	Save

Changing the code and keeping the description is not possible. In that case, the code needs to be removed (deleted) and a new one needs to be created.





# 5.3.4 Premium Call Center

The configuration of the Premium Call Center is similar to the configuration of the Call Center.

Х



Again, a **Statistics** tab is available on the Premium Call Center call flows if the customer has enabled the Call Statistics service on their solution.

The following services are different and only applicable on the Premium CC.

- Disposition code for agents
- DNIS (Dialled Number Identification Service)
- Skill based Routing
- Night service and holiday mode

# 5.3.4.1 Disposition code

# What is a disposition code?

Disposition codes are an enhancement to the Premium Call Center. They provide agents with the possibility to enter disposition codes for a call center call. The purpose of these codes is to associate a given call center call with a marketing promotion or other elements. The disposition codes contain two elements: an identification value and a description.

When the Premium service of a Call Center is authorized, disposition codes can be created at the enterprise, in case of the enterprise model, and at the group, in case of the service provider model. The configuration of these disposition codes can be found under the Settings tab in the Premium Call Center service.

The screenshot below shows where to find to Dispositions codes



# When to use it?



Disposition codes may be entered by the call center agent while the call center call is in progress or once the call has been finished and the call center agent is in Wrap-up state.

When the agent enters the disposition code while the call is in progress, the agent selects the call identification as well as the disposition code. The agent may be involved in several ongoing calls and therefore the call identification is required to ensure that the entered disposition code is associated with the appropriate call center call.

When the agent enters a disposition code while in Wrap-up state, the agent provides only the disposition code. The remaining information is retrieved from the BroadWorks Application Server.

Disposition codes can be used to address multiple scenarios, for example, capturing the result of the call ("Requires Follow-Up", "Issue Resolved", "Contacted Sales Rep"), capturing customer comments ("Angry", "Happy", "Called Multiple Times"), or capturing marketing campaign feedback ("Print Advertisement", "Web Site", "Direct Mailing").

Basically, these are codes that call center agents can use to tag a call.

The screenshot below shows more details when configuring these disposition codes.

- You can choose if you also want to use an Enterprise code in addition to a Disposition code. You can use this to specifically enter a code for a certain enterprise in case the agent is handling the calls for multiple enterprises.
- You can force the use of Call Disposition codes with a default value, which you can select.
- You can create a list of Disposition codes from which the agent can choose from.

How does the Disposition code look like?

- A code is just a digit string of max 10 digits with a description
- Each code can be active or inactive
- Only the description and the status can be updated



< Call Disposition Codes			D
dispositionCodeInfo			
Use Enterprise code in addition to Call center codes			
Force use of Call disposition codes with default code:	12312	•	
		✓ Save X Cancel	
Q Search		🛈 🔟 Dele	te + Add
Code †	Description $^{\uparrow}$	Level ↑↓	
1 354	Marketing event UK	CallCenter	<i>i</i> 11
2 <b>666</b>	Action customer X	CallCenter	1
<b>3 9898</b>	Review product Y	CallCenter	1
□ 4 <b>○ 2233</b>	Call out campain Z	CallCenter	1

# 5.3.4.2 DNIS (Dialled Number Identification Service)

A premium call center can be assigned up to 63 different Dialled Number Identification Service (DNIS) telephone numbers in addition to the call center primary number. Basically, this means that you can assign a call center with up to 63 different phone numbers on which it can be reach upon.

With this DNIS, the same agents could staff multiple call centers but from the external world, they will look like different call centers (different number, different announcements). The primary number is also considered a call center DNIS number and referred to as primary DNIS.

DNIS numbers can be used to prioritize call center calls so that more important calls are distributed to agents first. To prioritize calls, you assign priorities to the different DNIS numbers associated within the call center. When a call comes in on a given DNIS number, it automatically gets assigned with the priority that is set for that DNIS number. To prevent lower-priority calls from being stranded, you can configure those calls, which are in the waiting queue, receive a higher priority after a certain time.

When selecting the DNIS service, you'll receive an overview of the existing DNIS numbers.



>	UC Control Hub	Home / ···· / Premium Call Centers / G** Cc_Premium_Test1	Show advanced features 💽 ? Help 🌐 EN 🗿 😝
<	cc_Premium_Test1 Call Center Premium	Dialed Number Identification Service (DNIS)	
	Home	Overview DNIS Announcements	
鐐	Settings	DNIS Display settings	v
e	Recent calls	DNIS Priority settings	~
0°0	Agents	Q Search	O 🔟 Delete + Add
€Ľ	Incoming calls		
C.	Outgoing calls	Name Phone number	Extension Priority
Ē	Schedules	1 cc_Premium_Test1(Primary) 012683059	3059 Highest
(J	Media		10 v per page < 1 >
	Supervisors		
હ	DNIS		
	Details		

On this page, the DNIS Display settings and the DNIS Priority settings can be adapted to your needs.



Dialed	Number Identification Service (DNIS)						
Overvie	w DNIS Announcements						
DN	IIS Display settings			^			
	Display DNIS Name to agent when presenting call instead of C	alling Na	me				
Display DNIS Number to agent when presenting call instead of Calling Number							
		🗸 Sav	e	× Cancel			
DN	IIS Priority settings			^			
	Automatically promote calls with Priority 1 to Priority 0 after waiting	18	00	seconds			
	Automatically promote calls with Priority 2 to Priority 1 after waiting	18	00	seconds			
	Automatically promote calls with Priority 3 to Priority 2 after waiting	18	00	seconds			
		🗸 Sav	е	× Cancel			

When adding a new DNIS number, the following information is requested:



+ Add DNIS	5		×
DNIS Name:*			
Phone number:	Select	•	
Extension:			
Priority: *	Select	•	
Calling Line ID	Select	•	
Use custom	Calling Line name sett	ings	
Use custom	DNIS announcement s	ettings	
Allow outgo	bing call center call		
		Cancel	Add

The *DNIS Announcement* tab allows customizing further the call center. The settings you can customize are for example:

- Play an entrance message,
- Give an estimated waiting message, a waiting music and a periodic comfort message to the caller in the queue.

(Use the "pencil" to configure or adapt each of the settings)



🔽 Use cu	stom DNIS appouncement settings	
1	Entrance message Announcement Patrick Test file345 Group message test_file_example_MP3_700KB.mp3	/
	Estimated wait message	/
2	Announce the wait time for callers once the wait time 100 minutes or	
	<ul> <li>Play time high volume message</li> </ul>	
		1
3	Waiting music	
	ADME.mp3	
		1
4	Comfort Message 🦲	
4	Time between comfort messages 10	
	Default	

On the dashboard of the *Premium Call Center* a widget is shown with the amount of DNIS numbers configured for this call center and with a direct link to the page where you can make the configurations.



. )						
$\supset$	UC Control Hub	Tenants / / Headquarters / G' Premium G	all Center For DEV		Show advanced features	FAQ ? Help 🐨 EN (1) 🧐 😁
Q**	Premium call center for CallCenterPremium	Dashboard				
88	Home		00.0	0.00	Inbound calls	c
袋	Settings	0	00.0	0.00	15/12/2022 - 15/12/2022	
હ	Recent calls	3 agents online Queued cat from 4	lls Average time (las	waiting t hour)	Sorry, currently n	o data is available
ĉå	Agents	Auto refresh		G		
	Supervisors		Go to a	igents →	Waiting times C	Agent statistics C
e L	Incoming calls	Call logs			15/12/2022 - 15/12/2022	15/12/2022 - 15/12/2022
27	Outgoing calls	You don't have the appropriate rights to fetch this information	Go to recen	t calls →	(C): 00:00:00 Average wait time	$\bigcirc$
୍ଷ	DNIS					
	Schedules	Forward all my calls	Hide my number Do not disturb		Average abandoned time $\odot$	<ul> <li>Average agents talking 0 </li> <li>Average agents staffed 3</li> </ul>
0.0	Voicemail	Destination: Voicemail				
ľ	Media	Go to call forwarding $\rightarrow$			Call center DNIS	
	Details	Nauvalaanalla		_	64	
						Go to DNIS $\rightarrow$
		U				
			Go to void	cemail →		

# 5.3.4.3 Skill-based routing

# What is skill-based routing?

This is a feature available for the Premium Call Centers, and it assigns to every agent a "skill".

When a call arrives in the call center, the system will connect the caller to an available agent with the highest skill possible. If that agent is unavailable, it will search for the agent with the second highest skill, and so on...

# What's the definition of a skill?

A skill is a number between 1 and 20 and the lower the number, the higher the skill.

Example:

- 1. Agent A is an agent in the support queue with skill 10, and in the sales queue with skill 1 (because he is very good in "sales").
- 2. Agent B is an agent in the support queue with skill 1, but in the sales queue, he has skill 10.

When a call comes in the support queue, Agent B will always get the call whenever he is available. Agent A can receive the call (in the support queue) when Agent B is not available.

When Agent A and B are members of the sales queue, then Agent A will receive first the calls instead of Agent B.



The screenshot below shows an example of the view of a Premium Call Center with skill-based routing:

Charles Chaplin and Jeki Chan both have a skill 1 in this queue. They will probably receive the most calls on this subject. Then there are some agents who have skill 5 and other who have skill 10.

Y		Tenants / 📗	UAT_BCOE_ent1 / 🛄 UAT_BC	COE_ent1_g4373 / 🎧 Tes			Show advanced features 🦲	🔵 FAQ 🤉 Help 🕃	) 🌐 en (	Θ
$\checkmark$	Agents	st	Agents KPIs			G Charles Chaplin is №1 in order				
88	_									
e sis			12	00:11:45						
~~	30 aç fi	gents online rom 130	Calls are currently in queue	Average waiting time						
~~~~		Auto refresh		C						
9	You can re	order the agen	ts using drag and drop						+ Ad	d
6 K								✓ Sav	ve × Canr	cel
27	Skill 🧪	Order	Name	Extension	Phone number	Department	Email	Status		
e:	1	1	Charles Chaplin	9938	+30664899938	acting	c.chaplin@gmai.com	Unavailable	Ĩ	
Ē	1	2	Jeki Chan	9938	+30664899938	acting	j.chan@gmai.com	• Online		
00	5	1	Arnold Schwarzneger	9938	+30664899938	acting	a.schwarzneger@gmai.com	• Online	Ĩ	
ľ	5	2	Angelina Jolie	9938	+30664899938	acting	a.jolie@gmai.com	• Online	Î	
=	5	3	Charles Chaplin	9938	+30664899938	acting	c.chaplin@gmai.com	• Online	Ĩ	
	10	1	Jeki Chan	9938	+30664899938	acting	j.chan@gmai.com	• Online		
	10	2	Arnold Schwarzneger	9938	+30664899938	acting	a.schwarzneger@gmai.com	• Online	Î	

Defining a Premium call center queue as a "Skilled-base routing queue" is done via the *Queue settings* tab on the *Settings* service.

The screenshot below shows an example of the configuration screen for skill-based routing.

On this screen, you can activate skill-based routing by turning on the switch.

Note that when turning off the switch the agents will lose their skill (for this queue of course).





On the *Agent* service of the premium contact center, you can add a skill to an agent by clicking on the "pencil" next to Skill. This allows increasing, or decreasing, the skill value. Changing the order of the agents will not change their skill.

Q**	Premium call center for CallCenterPremium	Agents	5							
	Home	List	St	atistics						
鐐	Settings									
હ	Recent calls			0	00:00:00					
28	Agents	3 ag	gents online from 5	Queued calls	Average waiting time					
0	Supervisors		Auto refres	h	G					
64	Incoming calls									+ Add
27	Outgoing calls	You can r	eorder the ag	ents using drag and drop						✓ Save X Cancel
્	DNIS	Skill 🧪	Order 🧪	Name	Phone number	Extension	Department	Email	Status	
	Schedules	1	1	Agent 1	+3212340935	0935	N/A	agent1@enterprise.com	Online	Ĩ
00	Voicemail	1	2	Agent 2	+3212345230	5230	N/A	agent2@enterprise.com	Offline	
ť	Media	1	3	Agent 3	+3212345677	N/A	administration	agent3@enterprise.com	• Online	Ū
=	Details	1	4	Agent 4	+3212340933	0933	N/A	agent4@enterprise.com	• Online	Ī
		1	5	Agent 5	+3212340103	0103	N/A	agent5@enterprise.com	Offline	Û

'netaxis





atus	Available ~		
is cal	l center		
D	Туре:	Premium Call Center	
	Name:	Premium call center for DEV	
	Phone number:	+3216474934	
	Extension:	4934	
	ID:	UAT_BCOE_ent1_g6286_cc0750	
	Routing type:	Skill Based	
her c	Skill level	1 h agent belongs	
her d	Skill level all centers to whic Type:	1 h agent belongs Call Center	
her d	Skill level all centers to whic Type: Name:	1 h agent belongs Call Center Eva	
her c	Skill level all centers to whic Type: Name: Phone number:	1 h agent belongs Call Center Eva +3216474953	
her c	Skill level call centers to whice Type: Name: Phone number: Extension:	1 h agent belongs Call Center Eva +3216474953 953	
her c	Skill level all centers to whice Type: Name: Phone number: Extension: ID:	1 h agent belongs Call Center Eva +3216474953 953 UAT_BCOE_ent1_g4373_cc0120	
	Skill level all centers to whic Type: Name: Phone number: Extension: ID: Type:	1 h agent belongs Call Center Eva +3216474953 953 UAT_BCOE_ent1_g4373_cc0120 Premium Call Center	
her c	Skill level all centers to whic Type: Name: Phone number: Extension: ID: Type: Name:	1 h agent belongs Call Center Eva +3216474953 953 UAT_BCOE_ent1_g4373_cc0120 Premium Call Center KIRANPREMIUM	
	Skill level all centers to whice Type: Name: Phone number: Extension: ID: Type: Name: Phone number:	1 h agent belongs Call Center Eva +3216474953 953 UAT_BCOE_ent1_g4373_cc0120 Premium Call Center KIRANPREMIUM +3212683284	
	Skill level all centers to whice Type: Name: Phone number: Extension: ID: Type: Name: Phone number: Extension: Extension:	1 h agent belongs Call Center Eva +3216474953 953 UAT_BCOE_ent1_g4373_cc0120 Premium Call Center KIRANPREMIUM +3212683284 3285	

# 5.3.4.4 Support for night service & holiday mode

Premium call centers can be setup with an opening hour schedule and a holiday schedule.

# **Opening Hours schedule**

First you need to select if you're going to use/define opening hours for this premium call center. If not, then your call center will always be in the state "Open". You can only close the call center via the "Forced Close" button.

Screenshot below shows the schedule options for a premium call center.

<b>net</b> axis
SOLUTIONS

7	UC Control Hub	Tenants / 🧰 / 🗮 Headquarters / 🧬 Premium Call Center For DEV	
Q**	Premium call center for CallCenterPremium	The call center is currently: OPEN	Force close
	Home		
鎔	Settings		
C	Recent calls	Opening hours Holidays	
00	Agents	This call center has opening hours	
9	Supervisors	Action	~
r.	Incoming calls		
2	Outgoing calls	After business hours announcement	~
્	DNIS		
	Schedules	Play a different announcement when forced closed	
• •	Voicemail		
R	Media	Forced close announcement	*
E	Details	Advanced settings	~

When defining that this call center has opening hours, you can make further configurations.

The opening hours can be selected out of a list of schedules via the drop-down box.





The call center is	currently: OPEN	Force close
Opening hours	Holidays	
This call center has op	bening hours	
Please select y     Opening hours	our opening hours and press save	•
		✓ Save X Cancel
Action		✓ Save × Cancel
Action After business hou	rs announcement	✓ Save × Cancel ✓
Action After business hou Play a different annot	rs announcement uncement when forced closed	✓ Save × Cancel ✓

You can define what's the busy treatment during the opening hours of the call center in the *Action* section and define the *After-business hours announcement*.





Opening hours None	•
	✓ Save × Cancel
Action	^
Play first announcement	
<ul> <li>Apply busy treatment (forward to VM or busy tone)</li> </ul>	
Transfer to phone number 2243423423412	
	✓ Save X Cancel
After business hours announcement	
	^
System default	^
<ul> <li>System default</li> <li>Custom media</li> </ul>	^
<ul> <li>System default</li> <li>Custom media</li> <li>file_example_MP3_700KB.mp3 </li> </ul>	^
<ul> <li>System default</li> <li>Custom media</li> <li>file_example_MP3_700KB.mp3          <ul> <li>Forced closed</li> <li>Forced closed</li> <li>Forced closed</li> <li>Forced closed</li> <li>Forced closed</li> <li>Forced closed</li> </ul> </li> </ul>	^
<ul> <li>System default</li> <li>Custom media</li> <li>file_example_MP3_700KB.mp3 • •</li> <li>forced closed • •</li> <li>None •</li> </ul>	^
<ul> <li>System default</li> <li>Custom media</li> <li>file_example_MP3_700KB.mp3  <ul> <li>forced closed</li> <li>None</li> <li>None</li> <li>None</li> </ul> </li> </ul>	^

You can play another message in case the call center was closed due to a *Forced Close* action and you can indicate whether or not to use Feature Access Codes to manually override the night service.



Play a different announcement when forced closed	
Forced close announcement	~
Advanced settings	^
Allow feature access codes to manually override night service	
	✓ Save │ × Cancel

When the call center is closed, it will typically not accept calls but just play a (close) message and then close the call.

The call center can either be:

- 1. **closed due to holiday:** when there is a holiday active, this mode has always precedence over all the rest
- 2. **closed:** when there is no holiday active, but it's currently outside of business hours, the call center will be closed as well
- 3. **force closed:** during normal opening hours, it's possible to force close the call center. It is possible to setup a dedicated announcement to be played when the call center is force closed
- 4. **open**: all other cases

# 5.3.5 Hunt Groups

Hunt Groups allow to link a phone number to a group of users. Incoming calls to the Hunt Group's number are distributed amongst the members that are part of the Hunt Group. The distribution algorithm is configurable.

To setup a Hunt Group:

- 1. Go into the group of choice
- 2. Go to the *Call flows* page



# 3. Select Hunt Groups.

You will now see a list of Hunt Groups. Hunt Groups may be subject to licensing depending on your service provider policies. If you are allowed to create additional Hunt Groups, the **Add** button will be enabled:

The screenshot below gives an example of the Hunt Group list page.

Y	Hor	ne / 🏗 Acme Inc. / 🔝 Sample_Group					? Help	🖨 EN	Θ
	< Hunt C	Groups							
ធ	Hunt group is the	e method of distributing phone calls from a si Statistics	gle telephone number to a group	p of several phone lines.					
•	Q Search						🔠 Delet		+ Add
2		Name 14	Policy 1		Phone number $ {}^{\dagger}_{4}$	Extension $\dagger_k$			
Q				No records to displ	ay				
e							10 * per j	page	< >

When clicking the **Add** button, a wizard will appear similar to the *New IVR* wizard. You will be required to select the Hunt Group call distribution policy. Hover over each policy to see a description.



ireate Group Phone numbers optional Extension optional   Iame:* My HG Image:	Feature options Assign members optional optional
lame:* My HG Use anguage: English • refault Timezone: Select	same Name at CLI name
anguage: English	
Default Timezone: Select 👻	
olicy:* 🔿 regular 💿 circular 🔷 uniform 🔷 simultaneo	us 🔿 weighted

At the end of the wizard, it is possible to select users from the group/tenant to assign as members.

New hunt	group			
	<b>⊘</b>	- <b>O</b>	<b>⊘</b>	5
reate Group	Phone numbers optional	Extension optional	Feature options optional	Assign members optional
lect users from the	e list to assign::		Selected users to assign::	
Q Search			<ul> <li>Jane Doe +3212683288</li> </ul>	
-			<ul> <li>John Doe +3212683287</li> </ul>	
🗹 Jane Doe	+3212683288		✓ 3225403808 3225403808 +32	25403808
John Doe	+3212683287			
Donald D	uck +3212683277			
Daisy Duc	<b>k</b> +3212683284			
32254038	<b>08 3225403808</b> +3225403808			
32254038	<b>09 3225403809</b> +3225403809			

As soon as the Hunt Group is created, it is possible to drill down in the Hunt Group and manage its configuration:





To update the Hunt Group's distribution policy:



Y	Home / ••• / 🗒 Sample_Group / 🖓 My HG
C.	< Hunting mode
鐐	Policy:*
Ð	🔘 circular
°°Q	<ul> <li>uniform</li> <li>simultaneous</li> </ul>
C.	O weighted
23	Hunt after no answer: 5 rings
	✓ Save × Cancel

Updating the Hunt Group's hunting policy to define the members and their order:

Y	۲	Home / 🚥 / 🗐 Sample_Gro	$sup \neq \mathfrak{V}_{st}^{lb} MyHG$				? Help @ EN \varTheta
8	Memb You can r	ers eorder the agents using drag and d	to change the o	rder			✓ Save X Cancel
0	Order	Name	Extension	Phone number	Department	Email	
00	1	Jane Doe	3288	+3212683288	N/A	jane.doe@netaxis.be	8
Ľ	2	John Doe	3287	+3212683287	N/A	john.doe@netaxis.be	8
5	3	3225403808 3225403808		+3225403808	N/A		8
Ø							

# 5.3.6 Exclusive Hunt Groups

The Exclusive Hunt Groups (EHG) are a special version of Hunt Groups (HG). The EHG are different from the HG in the following parameters:

End Users can only be part of 1 Exclusive Hunt Group.

• The phone number is always mandatory.



- The Outgoing CLI of the end users' part of an EHG is forced to be the number of the EHG.
- The pages in the self-care portal of the Exclusive Hunt Groups have the same look and feel as for the normal Hunt Groups.

For the analytics related features the EHG are considered as normal HG.

This feature is project specific. It is disabled by default and needs to be enabled if the customer wants to make use of it the implementation of the project.

The feature relies on project specific workflows implementing the API end points used by this feature.

When the feature is enabled, it is shown in the list of Call Flows on Tenant and on Group level.

The figure below show the list of Call Flows on Tenant level.

1			Tenants / UAT_BCOE_ent1			Show advanced features	FAQ	? Help	9	🕀 EN	Θ
	$\checkmark$	Call flo	ws								
	08	Call flows	allow you to setup policies to efficiently route ca	alls to the ri	ht persons in your organisation						
	.ıl	μ	IVR (5)	>							
l	مت	9	Call Queue (5)	>							
	2	Q,	Call Center (30)	>							
	G	Q.,	Premium Call Center (25)	>							
	Ç	€%	Hunt Group (15)	>							
		$\ell_{m}^{a}$	Exclusive Hunt Group (5)	>							
	20	€"	Pickup Groups (5)	>							
	*8										

Adding a new Exclusive Hunt Group is done by following the a wizard. Different from the normal Hunt Group wizard is the fact that for the EHG the phone number is not an optional parameter.

The figure below shows the full EHG wizard where the phone number is not optional.



0	- 2	— ③ ——		5	
Hunt group details Name: * Use same name CLI Name: *	Phone numbers	Extension Optional	Feature options Optional Policy *: regular () circular () uniform () simultaneous () weighted ()	s Assign members Optional - hunting always starts at the first user in the list. If this user doesn't reply, the next one is tried until an idle user is found or the end of the list is reached.	
Default timezone	• :			Cancel	t

The figure below shows the phone number step of the wizard.



Hunt group details	Phone numbers	Geture options     Optional	(5) Assign members Optional	
Select main phone nu	umber from group level:	Selected m	ain number:	
Q Search		✓ +380	664321912	
+380664321	910			
+380664321	911			
+380664321	912			
+380664321	913			
+380664321	914			

In the last step, assigning the member to the EHG, it is clearly mentioned that a member of an Exclusive Hunt Group can only be part of one Exclusive Hunt Group.



lunt group details	Phone numbers	Extension Optional	Feature options Optional	Assign members	
A member of the	Exclusive Hunt Group can	only be part of one Exc	lusive Hunt Group		
elect users from the	list to assign:		Selected users	to assign:	
Q Search					
Member 1 + ph	one number 1				
Member 2 + ph	one number 2				
Member 3 + ph	one number 3				
Member 4 + ph	one number 4				
Member 5 + ph	one number 5				

# 5.3.7 Pickup groups

The **Pickup Group** call flow groups users into "pickup groups" so that they can answer ringing lines of somebody else in the call pickup group. To pick up a ringing call coming to another user of the group, go off-hook and dial the call Pickup feature access code, which connects them to the ringing party.

Adding a new pickup group will open a new window where the name of the pickup group can be set and the members of that group.

The screenshot below shows the list of pickup Group(s) available in the specific group.



Group users into pickup groups so that they can answer ringing lines of somebody else in the call pickup group. To pick up a ringing call coming to another user of the group, go off-hook and dial the call Pickup feature access code, which connects them to the ringing party.	< Pickup Groups	
Search   1   Sales team 1	Group users into pickup groups so that they can answer somebody else in the call pickup group. To pick up a ring another user of the group, go off-hook and dial the call f code, which connects them to the ringing party.	ringing lines of ging call coming to Pickup feature access
1 Sales team 1	Q Search	+ Add C
	1 Sales team 1	>

# 5.4 Accounts

The **Accounts** service is used to display end users (hosted extensions) and virtual extensions (external numbers dialable through on-net extension). Accounts are always linked to a Group. Linking users directly to a tenant is not possible. This is how Broadworks has been build.

Y	UC Control Hub	🚺 Home / 📟 / Groups / 🗒 Headquarters	
<	Headquarters Site	Accounts	
	Home	Users >	
<i>e</i>	Call flows	Virtual extensions	
2	Accounts		
2	Contacts		
ы.	Statistics		

Selecting one of the cards on the accounts page, for example the Users, shows the list of all the users from that specific group.



< Users								
Users list	Users KPIs	Bulk Updates Bulk Creation	ons					
Q, Search						🛈 🔟 Delete	+ Bulk add	+ Add user
Edit cal	Il forwarding 🔻	Edit outgoing calls settings 🔻	Edit incoming calls settings 🔻					
	Name		Email	Phone number	Extension	Departments		
1	Sid Phillips		Sid.Philips@					1
2	John Doe		John.Doe@	+3271	3881			Ĩ
							10 - per page	< 1 >

On that page there are several actions an administrator can do. There are the action buttons:

- Delete: this one will delete the selected user(s)
- Bulk add: this button allows to add a number of users in bulk on the platform.
- Add user: this button adds one user (at a time).

The different tabs on the screen give the following information:

- Users KPIs: If the Call Statistics services is enabled for the customer, it shows some call statistics about the users.
- Bulk Updates: This tab shows the result of "Bulk updates" done on the users.
- Bulk creations: This tab shows the result of the creations of new users via a bulk upload (the result of the action when used the "+Bulk add" button).

The next sections give more clarification to some of the action buttons and/or tabs on the screen.

#### 5.4.1 Bulk Add

It is possible to create users in bulk in the same group by filling in and uploading an Excel template. This is interesting when doing an initial setup of the tenant or group.

On the group, where the users need to be added, click on the "Bulk Add" action. This will open a new window which explains the step to take to upload a list of users in bulk.



Download template	Validate
Download our excel template	
After downloading our template, fill in the DA considered. In the first tab a description is pro After submitting your bulk sheet, a backgroun	TA tab. Please don't change the name of this tab. Only the data found in that tab is wided on how to fill in the template. Please read them carefully and follow the guidelines. nd job will started an users will be created.
	Upload .xlsx file 🏦
Send a report of the provisioning actions	

The template file is composed of three tabs:

- The *Instructions* tab describes how to fill in the template.
- The *DATA* tab is where you will enter user information for the users to be created. You specify one user per line.
- The *ref\_data* tab contains reference data such as the available Service Packs or devices and should not be modified.

When filling in the DATA tab, one user is specified per line. It is important to note that:

- Some fields, such as user's first and last name, are mandatory. They will be shown in a specific colour as specified in the *Instructions* tab. Please make sure that those fields are filled in.
- The values entered in some fields, such as the user's device type, are controlled (select the value from a drop-down list).
- The phone number and extension can be specified or automatically selected from the available resources. Chose this when filling in the template.
- Additional services like Mobility, Broadworks Anywhere and Hoteling Host/Guest can be configured as well. However, note that in certain cases this might lead to a rollback of the user. For



example, trying to enable Hoteling Host for a user while not assigning that license to the user will cause the user creation to roll back.

More information can be found on the instructions tab of the excel file.

Once filled in and saved, upload the template on the portal and click *next*. There is also the possibility to receive a report of the bulk provisioning actions by email.

The list of users that is specified in the template will be presented for validation of the data. **Note** that if "auto-select" was chosen for some data, such as phone number and extension, the corresponding fields will not be populated at this step.

When proceeding with the bulk creation, click on *Save*. A notification is sent (shown) that the request was added. This means that the bulk job was started, not that the users were successfully created. The bulk job will appear in the table with a global status:

- Active: the bulk creation is still running
- Closed in success: the bulk job is finished; you can open the details to see the status of each user creation
- Closed in error: the bulk job could not be executed.

# 5.4.2 Bulk Actions

Since the release 3.1 (see the release notes of release 3) an improvement is introduced on the Bulk action service. This improvement allows setting some configuration parameters for several users via the account/user list overview.

Today the framework for this improvement is defined and 3 services are already made available to be done via this Bulk action service. There is the:

- Call forwarding service;
- Outgoing call settings service;
- Incoming call settings service.

< Users					
Users list	Users KPIs	Bulk Updates	Bulk Creations		
<b>Q</b> Search				i 🔟 Delete	+ Ви
Ed	it call forwarding 🔻	Edit outgoing calls settings	•	Edit incoming calls settings	•



Opening the Call Forwarding service shows the configuration items than can be selected.

Edit call forwarding 🔺	
Always	
No answer	
Busy	
Unreachable	

When for example the *Call Forwarding Always* is selected, a new window will open where: - the users can be selected to be configured (all at once). - One of the configuration options can be set.



users selected: Sid Phillips +1 Other  Off Voicemail Phone number	ers selected: d Phillips +1 Other Off Voicemail Phone number	sers selected: iid Phillips +1 Other  Off  Voicemail  Phone number	Edit Call forwardir	ng Always	
Sid Phillips +1 Other  Off Voicemail Phone number	d Phillips +1 Other	off Voicemail Phone number	0 users selected:		
Off Voicemail Phone number	Off Voicemail Phone number	Off Voicemail Phone number	Sid Phillips +1 Other	•	
Voicemail       Phone number	Voicemail Phone number	Voicemail Phone number	Off		
Phone number	Phone number	Phone number	Voicemail		
			Phone number		
					,
					(

The same reasoning counts for the **Outgoing calls service** - setting the *Hide my number* feature for several users - and for the **Incoming calls service** - set the *Do not disturb* feature for the selected users.

Figure below shows the Outgoing calls service that is already offered through a "Bulk Action"

Users list	Users KPIs	Bulk Updates	Bulk Cre	ations	
Q Sea	arch				🛈 🔟 Delete
	Edit call forwarding 🔻	Edit outgoing calls se	ettings 🔺	Edit incom	ing calls settings 🔻
	Name	Hide my number		none number	Extension

Figure below shows it for the Incoming Calls service.



Users list	Users KPIs	Bulk Updates	Bulk Creatio	ns
Q Sea	arch			🛈 🔟 Delete 🕇 +
	Edit call forwarding 🔻	Edit outgoing calls settings	•	Edit incoming calls settings 🔺
	Name	Email	Pho	Do not disturb

# 5.4.3 Bulk Updates

The Bulk Updates show the result of the Bulk actions. On this tab, it's possible to see if the Bulk Actions passed well. The screenshot below shows an example of that Bulk Updates page.

< Users										
Users list	Users KPIs	Bulk Updates	Bulk Creations							
Q Searc	h				Delete					
	DI doL	Created On $\uparrow_{\downarrow}$	Results	Type of update	Status					
1	2e633a83-19bb-432a-a25f-bc 402a5a8f81	2023-09-01 10:36:42	1/1	BULK_USER_SRV_UPDT	Closed in succ · 🔟 ess					
2	6917f0fd-aff4-4961-a081-2b3 e65594b44	2023-09-01 10:33:59	1/1	BULK_USER_SRV_UPDT	Closed in succ · 🔟 ess					
				10 🔹 per page	< <u>1</u> >					

Clicking on the Job ID will give more details about that specific update.



6917f0fd-aff4-4961-a081-2b3e65594b44						
Status	Closed in success					
Started 2023-09-01 08:33:59						
Туре	Update of Services					
Details	clir					
1 Te	st_Ent_STEV_g2053_u4451	Closed in success				

# 5.5 Sites (Groups)

The Sites service is used to manage sites (also known as Groups).

Sites typically refer to a geographical location (building or a campus) where a user is located. Both users and call flows (virtual PBX services like IVRs, hunt groups, call centers) must be assigned to a specific site/group. This means that at least 1 site/group in your tenant is needed. It is impossible to create users and call flows without assigning them to a site/group.

.ıl	Statistics	🔋 Home / 🗈 Test Enterprise Stijn			Show advanced Features	? Help	🌐 en	Э	θ
e:g	Call flows	My sites + Add site							
Do	Accounts	Q. Sayah							
₽	Sites	Search							
OI	Licenses	1 Headquarters	Ī	2 Paris Production	Ū				
r.	Phone numbers								
$\bigcirc$	Cloud Connections								
	Mobility								

# 5.6 Licenses

Lots of things can be said about the licenses and it will be different from customer to customer.



The licenses shown in the self-care portal are a representation of the licenses and service packs in the BroadWorks application. That's why they are different for every customer.

		UC Control Hub	۲	Home \mid 🛅 Test Enterprise Stijn			Show advanced features	? Help	5	Θ
(	$\langle \rangle$	Test Enterprise Stijn Enterprise	Licer	nses						
		Home	Call fl	ow and user licenses Number e	entitlements					
	.ıl	Statistics		User licenses	In use		Call flow licenses	In use		
	و	Call flows Accounts	1	Advanced seat (advanced features)	15/20	1	Auto Attendant	3/10		_
∎ Do	0		2	Call center agent (standard)	6/10	2	Auto Attendant - Standard	5/5		_
	ŏ		3	Call Logs for IVRs, Hunt Groups and Call Centers	60/Unlimited	3	Call Pickup	Unlimited	/ Unlimited	I
		Sites	4	Call queue member	8/10	4	Hunt Group	Unlimited	/ Unlimited	I
	္ဌ	Licenses	5	Call recording	3/10					
ي ا	Ç	Phone numbers	6	Mobility	3/10					
		Cloud Connections	7	Power pack for IVRs, Hunt Groups and C all Centers	3/10					
	Q	Mobility	8	Premium call center agent	6/10					
	20	Contacts	9	Premium webex license	6/10					

Next to the license tab, there is also the **Number Entitlement** tab. A number entitlement can be considered as a license but then for phone numbers. It grants the ability to select and/or assign a certain phone number from the inventory of phone numbers. It gives the "right" to use numbers from a certain block of number (Belgian national numbers, Local numbers, etc...). If there are entitlements, numbers can be selected.

Licenses									
Call flow and user licenses	Number entitlements								
Entitlements	Country	Number type	Regions	Reserved	Disconnected	In use			
1 Belgium - geographical numbers	+32	geo		51	0	51/60			
2 NL - geographic numbers	+31	geo		10	0	<u>A</u> 10/10			
3 Real Belgian PSTN Numbers	+32	real_geo		2	0	2/10			

# On Tenant level

The license page on tenant level shows the (tenant) administrator the licenses that are available for that tenant. A tenant administrator cannot edit or change the number of licenses assigned to its tenant. Changing this number is the responsibility of a system administrator and can only be done through the Provisioning User Interface (ProvUI) on the APIO Core or through an automated process (workflows on the APIO Core).

#### On Group Level


A *Tenant Administrator* will have the possibility to change the number of licenses for a certain group or site. The pencil icon on the license table, gives the ability to edit the table.

Home / … / Group	os / 🏢 Headquarters		Show adv	vanced features 🚺	? Help	🌐 en	Э	θ
Licenses								
User licenses	In use	ľ	Call flow licen:	ses	In	use		1
1 Advanced seat (advanced	d features) 1/10		1 Auto Attendar	nt	0/	3		_
2 Call center agent (standa	ard) 0/5		2 Auto Attendar	nt - Standard	2/	5		_
Call Logs for IVRs, Hunt C Centers	Groups and Call 2/10		3 Call Pickup		1/	Unlimited		-
4 Call queue member	0/5		4 Hunt Group		0/	Unlimited	_	-
5 Call recording	0/3							
6 Mobility	0/3							
Power pack for IVRs, Hur all Centers	nt Groups and C 2/3	_						
8 Premium call center ager	nt <u>1/2</u>							
9 Premium webex license	1/3							
10 Softphone license	0/2							
11 Standard seat (basic feat	utres) 1/8							

The screenshot below shows the new window that appears when clicking on that pencil icon.



elect user licenses:	Selected licenses: In use Limits 🖍 N	1ax
Advanced seat (advanced features)	Advanced seat (advanced features) 1 10	15 🔟
✓ Call center agent (standard)	Call center agent	
✓ Call queue member	(standard) 0 5	9 []
Call recording	✓ Call queue member 0 5	7 🔟
Mobility		
Premium call center agent	✓ Call recording 0 3	10 🔟
Softphone license	✓ Mobility 0 3	10 🔟
Standard seat (basic feautres)		

The Call Flow licenses are also editable.

A *Group Administrator* will only have a view on the licenses (like the tenant administrator has on tenant level).

### 5.7 Phone numbers

When using the portal for the first time, it's best to check whether numbers were already assigned to the account. If this is the case, the users can be created immediately. If not, numbers can be selected from the inventory, linked to the solution, or port in numbers to our platform.

### 5.7.1 Phone number management

To obtain numbers to the phone system, 2 options are offered:

- 1. Selecting numbers from our inventory
- 2. Porting in existing numbers.

The solution offers also a 3rd option, which is to use *disconnected* numbers. These are: - for native numbers: A disconnect will de-assign them from your account and put the numbers in quarantine



for 90 days after which they become available again for somebody else. - for ported numbers: A disconnected number are de-assigned as well and the numbers will also go into quarantine. After 90 days the operator, originally owning the numbers, can be re-assigned the numbers to another customer.

### 5.7.1.1 Selecting numbers from our inventory

When speaking about "our inventory", the Netaxis NIMS (Number Inventory Management System) should be used for managing the numbers.

### New numbers

When adding new numbers, this is possible if entitlements are available. This can be done on tenant level in the phone numbers service, under the tab *Assigned numbers* using the "Add" button. Note that this "Add" button will only be available if at least 1 entitlement is available.

The screenshot below gives an example of the phone number service - Assigned numbers - in the self-care portal.

Y		Ho	me / 🏭 Acme Inc.			? Help
	Phone	num	nbers			
	Assigne	d nur	bers Discon	nected number	s Reserved numbers	
i S O	188 num 130 num 58 numb	bers to bers a: ers ava	otal ssigned for groups ailable for assignment			Active as long as 1 or more entitlements are left
103 100	Q s	earch				+ Add Disconnect 🖉 Assign to group
01			Range from 1/4		Range to †4	Assigned to group ${}^{\rm T}_4$
e		1	+27102850240			Headquarters
£		2	+27102850048	<b>→</b>	+27102850049	Headquarters
Q		3	+3280025483	<b>→</b>	+3280025484	24
		4	+3212683277			24
20		5	+3271125234	<b>→</b>	+3271125239	%

When adding phone numbers, a modal window will pop up showing all number ranges that are owned by the operator providing the numbers. The entitlement column indicates how many numbers still can be selected in that specific range:



1) —		2	) ——		3		
umbers	blocks	Rar	nge defini	tion	Selec	t your numbers	
<b>Q</b> 56	earch by country code					Blue: entitlements le Red: no more entitle	eft ement
0	+32	25881422	$\rightarrow$	25881422	real_geo	11	
0	+32	25881452	$\rightarrow$	25881452	real_geo	11	
0	+32	12683000	$\rightarrow$	12683999	geo	20	
	+32	16889900	$\rightarrow$	16889999	Mobile CLI	ο	1
0	+32	488000000	$\rightarrow$	488000099	geo	20	

After selecting the number block of choice, the next step in the wizard asks to indicate:

- 1. How large the range must be (for example a single number, a range of 10, 20 or more, etc.)
- 2. How many suggestions you would like to see: if possible, the system will propose a few options that meet your criteria.



Ange definition Select your numbers   want to select numbers starting with: 12683   yount of numbers you can still select for this number type: 20 Remaining entitlements for this type   age size (20 max) 5 0   ymany suggestions do you want? 5				
want to select numbers starting with: 12683 bunt of numbers you can still select for this number type: 20  Remaining entitlements for this type age size (20 max) 5 0 w many suggestions do you want? 5	nbers blocks		Range definition	Select your numbers
age size (20 max) 5 0	want to select num	bers starting with	: 12683	
nge size (20 max) 5 ①	ount of numbers you	u can still select fo	r this number type: 20	emaining entitlements for this type
w many suggestions do you want? 5	nge size (20 max)	5 🛈		
	w many suggestions	do you want?	5	

Then the system will try to propose several options that meet your criteria. In case no results are found, retry your search request while reducing the range size. The larger your range size, the more unlikely it is to find a suitable range. It is currently not possible to see from the UC Control Hub which sub-ranges are available within a number block.

Multiple suggestions can be selected if enough entitlements are available:



mbers blocks			Range definition		Select	your numbers	
ease select rang	ge from range sugg	jestions b	elow:				
2	12683266	$\rightarrow$	12683270	5			
2	12683271	$\rightarrow$	12683275	5			
2	12683284	$\rightarrow$	12683288	5			
2	12683294	$\rightarrow$	12683298	5			
0	12683289	$\rightarrow$	12683293	5			

### Now the numbers will be available under the Assigned numbers tab:

Y	Phone numbers	
	Assigned numbers Disconnected numbers Rese	rved numbers
<u>م</u>	208 numbers total 130 numbers assigned for groups 78 numbers available for assignment	
2	Q 126	+ Add V Disconnect Assign to group
<u></u>	Range from <sup>1</sup> 4 When numbers are added to the tenant	Assigned to group 14
e	1 +3212683280 ✓ 2 +3212683294 → +3212683298	Headquarters
£		%
۵	4 +3212683301	Headquarters

The numbers are available for immediate assignment to groups and users. This can be done directly from tenant level or by drilling down in a group and adding them from the group level. When numbers are added, this will have of course impact on your *Number entitlements* view on the License service.



#### **Reserved numbers**

When numbers are reserved for your account, they appear in the *Reserved numbers* tab under the Phone numbers service on tenant level.

Y	Home /	Acme Inc.						? Help	⊕ EN	Θ
	Phone numbers	5								
ଜ	Assigned numbers	Disconnected	d numbers	Reserved numbers						
eii	These are the phone n	numbers reserved for your ent	erprise. You will be able t	o add them to your accou	int as soon as you have be	en granted appropriate rights.				
2	Q Search									
40*		Country code $^{\dagger}_{4}$	Number $^{\dagger}_{4}$		Number type †	Region †	Entitlements le	eft †		
Q	1	+32	65832154		geo	Mons	5		200	
e	2	+32	65832153		geo	Mons	5		20	
£	3	+32	65832152		geo	Mons	5		22	

Reserved numbers are not counted in the entitlements. However, when selecting a reserved number and adding it to your account, available entitlements are required.

So when for example, a tenant has no more entitlement for geographical numbers, although the numbers are reserved, it is not possible to add them to the account. Either numbers will have to be disconnected *OR* more number entitlements must be ordered.

#### **Disconnected numbers**

In certain cases, you might want to release numbers (disconnect numbers) because they are no longer needed or numbers from another geographic region are required. To do this, go back to the phone number menu on tenant level. Make sure that the numbers you want to disconnect are not allocated to a group or user. If this is the case, please first de-assign them.

Only when they are free at tenant level, these numbers can be disconnected:



Y		Но	me / 🎚 Acme Inc.					? Help	EN 🕀 EN	θ
	Phor	ne nun	nbers							
~	Assig	ned nun	nbers Disco	nnected numbe	rs Reser	ved numbers				
w	208 nu	imbers to	otal							
eii	130 nu	imbers a	ssigned for groups							
8	78 nur	nbers av	ailable for assignment							
50a	Q	126					+ Add	Disconnect	S Assign to	group
<u>@</u>		1	Range from 14		Range to ‡		Assigned to group \$4			
e		-	+3212683280				Headquarters			
Ē		2	+3212683294	<b>→</b>	+3212683298					%
0		3	+3212683277							%
20		4	+3212683301				Headquarters			
20		5	+3212683259	<b>→</b>	+3212683263		Headquarters			

#### Numbers that are disconnected are listed in the Disconnected Numbers tab:

Y	۲	Home / 🎚 Acme In	с.				? Help	⊕ EN 😶
	Phone	numbers						
命	Assigne	d numbers	Disconnected numbers	Reserved numb	pers	Disconnection		
2	Q SI	earch				date		Reclaim
8		Country code ‡	Number †4	Number type †4	Region ‡	Disconnected †	Entitlements lef	numbers
:0;	1	+32	12683294	geo	Tongeren	2021-06-01	5	5
Q	2	+32	12683295	geo	Tongeren	2021-06-01	5	5
e	3	+32	12683296	geo	Tongeren	2021-06-01	5	5
ß	4	+32	12683297	geo	Tongeren	2021-06-01	5	5
۵	5	+32	12683298	geo	Tongeren	2021-06-01	5	5
20	6	+32	71241070	geo	Charleroi	2021-05-27	5	5
°0							10 - per page	< 1 >

Disconnected numbers remain for 3 months in a quarantine status. This means they are still associated to this account and can be *reclaimed* at any time until the quarantine period expires.

Disconnected numbers no longer count in the number entitlement calculation, so you can select as many other numbers as you released.



4		Home / 🛅 Acme Inc.									? Help	⊕ en 📢
	Licens	es										
		User licenses †	In use †	Limited $\dagger_4$		Other licenses $\dagger_{ij}$	In t <sub>a</sub>	Limited $\dagger_{\downarrow}$		Number entitlements $^{\dagger}_{4}$	In use T <sub>4</sub>	Limited †
l	1	Advanced seat	27	50	1	Account/Authorizati on Codes	6	Unlimited	1	Belgium - geographical nu mbers	175	180
l	2	Basic seat	30	Unlimited	2	Auto Attendant	16	17	z	Belgium - tollfree numbers	19	30
l	3	Call center agent	15	20	3	Auto Attendant - Sta	11	Unlimited	3	NL - geographic numbers		20
	4	Call logs for IVRs, h untgroups and call centers	Unlimited	Unlimited	4	Intercept Group	6	Unlimited	- 4	Real Belgian PSTN Number s	1	12
l	5	Call queue member	10	20	5	Route Point	4	5	5	South Africa -geo	1	14
l	6	Call recording	7	8		Trunking licenses		Limited 1				
l	7	Mobility	11	23		Main burnhine						
	8	Power pack for IVR s, huntgroups and c all centers	15	15	2	Max bursting		10		- 1		
	9	Premium call center agent	6	8						1		
	10	Shared desk	12	30		5 numb	ers disco	onnected :	==> !	5 more entitlen	nents	
	11	Softphone ①	7	7		availabl	e (from	80 in use	to 1	75 in use)		

**Please note:** If the number was previously ported in, it will not appear in this list of disconnected numbers. However, our porting system will keep your number in quarantine for 3 months. Please reach out to the help desk to reclaim the number. After the quarantine period, the number will be released permanently.

### 5.7.1.2 Number activating

As from release 3.1, a feature has been introduced allowing to activate / de-activate numbers. The activation of the numbers is an optional feature configured at system level. It will be controlled globally using a new configuration option.

By default, the feature will be disable as this is our current behavior of the solution. If the feature needs to be enabled, then this can be done upon request during the setup and configuration of the solution.

The feature is accessible at Group level in the "Numbers" service.

If the feature is enabled, the number service at Group level shows it as following on its page:



5	UC Control Hub	🕕 Tenants / 🖛	/ Groups / 🔲 Headquarters				Show advanced features	TAQ 7 Hels	0 3	
•	Headquarters Site	Phone numbers								
80	Home	175 numbers for this group 13 numbers available for a	p ssign							
€	Call flows	Q, Search			0 🕅 🗠	nige 🕂 Anige				
8	Accounts	Range from %	Range to 1	Available 5	User &	Activated				
613	Contacts	+27102850009		-	ជ					
al	Statistics	+27102850027		-	ផ					
10	Phone numbers	+27102850028		-	ជ					
	Mobility	+27102850029		-	C					
۲	Licenses	+27102850030		-	្ល					
	Schedules	+27102850031		-	2					
88	Departments	+27102850032		-	ធ					
\$	Calling settings	+27102850038		-	C					

When deactivating an individual number, a message pops up to make sure that you are aware of what you are doing. It should prevent you from deactivating a number by mistake.



### 5.8 Porting service

To use the porting service on the self-care portal, the Netaxis NPACT application needs to be included in the setup or design of the solution.

To port in numbers go to the **Porting request** service in the left side menu. This page/service will give an overview of all porting requests (port in, **NOT** port out) initiated for this tenant.



Y	•	Home / Tenants / UAT_BCOE_e	nt1 / Porting-Requests				?	Help 🌐 E	N (j	Θ
	Porting	g requests							ŀ	Add
ណ៍	Q s	earch	Show All							
40a		Porting ID	Status		Date of cre	ation	Donor	Due	fate	
01	1	P202103121023284687	pending review by backoffice (1/4)		2021-03-12 1	10:23:28				
e.	2	P202103101121422479	rejected by backoffice		2021-03-10 1	11:21:42				
D	3	P202103101115049692	ACTIVATED		2021-03-10 1	11:15:04	DMTNGNP			
2.0	4	P202103101057129710	ACTIVATED		2021-03-10 1	10:57:12	DMTNGNP			
20	5	P202103091637039775	rejected by backoffice		2021-03-09 1	16:37:03				
	6	P202103091632212938	rejected by NP Clearinghouse		2021-03-09 1	16:32:21	DMTNGNP			
Q	7	P202103091630078377	pending review by backoffice (1/4)		2021-03-09 1	16:30:07				
	8	P202103031805164251	validated, sent to NP Clearinghouse	e (2/4)	2021-03-03 1	18:05:16				
	9	P202103031804357915	pending review by backoffice (1/4)		2021-03-03 1	18:04:35				
	10	P202103031618028480	rejected by NP Clearinghouse		2021-03-03 1	16:18:02	DMTNGNP			

To launch a new porting request, click the *Add* button. A wizard will pop up showing the step to take to port in a number.

- A contact e-mail needs to be filled in used to communicate on the progress of the porting request.
- A due date is requested by the porting authority. The advice is to set it at least 7 days ahead. However, the date is purely administrative.



Request details       Enterprise info       Porting numbers       Numbers list       Documents         Contact information       Provide a contact person who we can contact in case of issues and to who we can send updates on the status of this porting request.       Image: Common the status of this porting request.       Image: Common the status of this porting request.       Image: Common the status of this porting request.         Email address*:       Image: Common the status of the request to be utimately activated. It can take up to 5 business days from now for your request to be ready for activation.       Image: Common the ready for activation.       Image: Common the ready for activation.       Image: Common the ready for activation.         Date:       2020 / 05 / 11       Image: Common the ready for activation.       Image: Common the ready for	Documents	Numbers list	Porting numbers	Enterprise info	Request details
Contact information   Provide a contact person who we can contact in case of issues and to who we can send updates on the status of this porting request.   Email address*:   usermail@mail.com   Due date Please pick up a date by when you want the request to be ultimately activated. It can take up to 5 business days from now for your request to be ready for activation.   Date:   2020 / 05 / 11					
<pre>trovide a contact person who we can contact in case of issues and b who we can send updates on the status of this porting request. imail address*: usermail@mail.com use date lease pick up a date by when you want the request to be ltimately activated. It can take up to 5 business days from ow for your request to be ready for activation. ate: 2020 / 05 / 11  Comparison Comparison</pre>					contact information
Email address*: usermail@mail.com   Due date Please pick up a date by when you want the request to be Itimately activated. It can take up to 5 business days from Now for your request to be ready for activation.   Date: 2020 / 05 / 11			e of issues and orting request.	erson who we can contact in ca updates on the status of this p	Provide a contact pers o who we can send up
Due date         Please pick up a date by when you want the request to be         Itimately activated. It can take up to 5 business days from         iow for your request to be ready for activation.         Date:       2020 / 05 / 11				usermail@mail.com	
				11 -	ate: 2020 / 05 / 1

In the next step, information must be provided about the enterprise for which this porting is requested. Although the customer ID is known, what is needed here is the official account number at the donor provider (so the provider from where you want to port in numbers):



<b>&gt;</b>	1	2		(4)
Request details	Enterprise info	Porting numbers	Numbers list	Documents
Enterprise information	1			
i ID*:				
Name:				

Then provide the numbers that need to be ported in. Follow the instructions provided by the portal:



<b>v</b>	<b>O</b>	2	(3) (4)	
Request details	Enterprise info	Porting numbers	Numbers list Documents	
Porting numbers				
Numbers*:			Porting numbers	
			Please include Country Code, City/Area Code and the Local Number. For example:	
			35319609036 35 31 9609036	
			When porting multiple numbers, they must be listed in a column, for example:	
			35319609036 35319600837 35319603649	
			If a range of numbers is to be ported, please enter the numbers as follows:	
			35319609036 - 35319609046 or 35319609036 - 46	

**Important:** Don't try to port multiple ranges at once. If this is needed, provide the numbers as individual numbers, or make multiple requests. The porting authority will otherwise refuse the request.

The next step will do a very basic verification. The numbers are not checked on validity against the numbering plan. The only verification done is that the input can be correctly parsed:



quest o	details	Enterprise info	Porting numbers	Numbers list	Documents	
	Range from		Range to	Status	Actions	
1	380345347685	$\rightarrow$	380345347685	Success	Ū	
2	380345347685	$\rightarrow$	380345347685	Success	Ū	
3	380345347685	i		Success	Ū	
4	380345347685	i		Success	Ū	
5	380345347685	$\rightarrow$	+3(80)345347685	i Error	Ī	
6	380345347685	;		Success	Ū	

If there is an error in the porting of a certain number (range) than it will indicate this. Hovering over this error indication will give more information about why the error is shown here.



quest deta	ails	Enterprise info	Porting numbers	Numbers list	Documents	
	Range from		Range to	Status	Actions	
1	380345347685	$\rightarrow$	380345347685	Success	Ū	
2	380345347685	$\rightarrow$	380345347685	Success	Ū	
3	380345347685			Success	Ū	
4	380345347685			This number(s) will not it is provided incorrectly	be included in the request as	
5	380345347685	$\rightarrow$	+3(80)345347685	Error	Ū	
6	380345347685			Success	Ū	

Once confirmed, the porting request will be created. It will be sent for review to our number porting back office. This back office will double-check the porting request before sending it to the porting authority.

To be able to validate the porting request, it is mandatory to complete the next step (step 5) which is uploading the required legal documents:



Request details	Enterprise info	Porting numbers	Numbers list	Documents	
suitable formats: .pdf	or .jpg, max file size: 10MB				
I <b>D</b> A copy of your nationa U <mark>pload</mark>	al ID				
Billing statement Last (and up to date) I owns those numbers Upload	billing statement showing the	at the company			
Letter Letter of authorization is a letter telling you w previously Upload	n with the official company's vant to port in numbers you h	letterhead; this ave added			

The **Finish** button will become active as soon as the required manual actions are done. For example, the customer needs to upload a letter authorizing the Telecom operator to port in the numbers, or a bill from the old provider is required to prove that the customer really owns these numbers.

If the modal window is closed without being complete, it is still possible to upload documents afterward.



Y	•	Home / Tenants / UAT_BCOE_I	nt1 / Porting-Requests			? Help	⊕ EN	(j)	Θ
•	Porting	g requests						+	Add
ŵ	Q s	earch	Show All	*					
*0a		Porting ID	Status		Date of creation	Donor	Due date		
<u>.</u>	1	P202103302128001921	pending review by backoffice (1/4)		2021-03-30 21:28:00				
e.	2	P202103121023284687	pending review by backoffice (1/4)		2021-03-12 10:23:28				
۵	3	P202103101121422479	rejected by backoffice		2021-03-10 11:21:42				
20	4	P202103101115049692	ACTIVATED		2021-03-10 11:15:04	DMTNGNP			
2°	5	P202103101057129710	ACTIVATED		2021-03-10 10:57:12	DMTNGNP			
£	6	P202103091637039775	rejected by backoffice		2021-03-09 16:37:03				
Q	7	P202103091632212938	rejected by NP Clearinghouse		2021-03-09 16:32:21	DMTNGNP			
	8	P202103091630078377	pending review by backoffice (1/4)		2021-03-09 16:30:07				
	9	P202103031805164251	validated, sent to NP Clearinghouse (2/4	4)	2021-03-03 18:05:16				
	10	P202103031804357915	pending review by backoffice (1/4)		2021-03-03 18:04:35				

Selecting one of the porting IDs, allows going into the porting request details again to upload documents for example.



Y	Home	/ / 113 / Request Details		
	< 113			4
命	Request details	Enterprise info	Porting numbers	Documents 🕡
	Porting ID:	P202103302128001921		
60a	Status:	pending review by backoffice (1/4)		
~	Last update:	2021-03-30 21:28:00		
9	Date of creation:	2021-03-30 21:28:00		
	Due date:	2021-04-11 00:00:00		
e	Donor:			
	Email address:			
20				
20				
E.				
Q				

The porting will now go through different stages:

### 1. Pending review by back office (1/4):

The back-office is informed and will have to validate the request

In case the request is considered invalid, the back-office will reject the request

The porting case will be closed and receive a status:

### **Rejected by back-office**

This means the request has to be re-initiated with better information

When the back office confirms the port request is valid, the request is sent to the porting authority. The request will now have status:

### 2. Validated, sent to NP Clearing house (2/4)

In case the porting authority refuses the request, then the request will be closed with the status:

Rejected by the NP Clearinghouse Reasons might be that:

• One or more numbers from the list are still involved in another port



- One or more numbers from the list were ported too recently
- Multiple ranges are provided as an input Other reasons might be observed as well.

Now that the request is sent to the NP Clearing house, and relayed to the donor, the donor must either accept or reject the port:

If the port is accepted, the status will change to:

### 3. Accepted by donor, ready to activate (3/4)

If refused, the status will be:

#### Rejected by donor.

In this case, please take contact with the current service provider in order to understand the reason for refusal.

As soon as the porting request is accepted, it is possible to either cancel or activate the port. The status will change accordingly.

11	J	Home	e / 🚥 / 117 / Request Details			? Help	⊕ EN	(j)	Θ
(		<u> </u>				X Cance	el (U	Activa	te 🛈
1	ሰ	Request details	Enterprise info	Porting numbers	Documents 🕡				
-2	20	Porting ID: Status:	P202103302230528535 accepted by donor, ready to activate (3/4)						
	0	Last update: Date of creation:	2021-03-30 22:30:52 2021-03-30 22:30:52						
	e.	Due date: Donor:	2021-04-11 00:00:00						
		Email address:	and the second second						
[	20								
d	Dç								
	6								
	Q								

Porting request ready to be activated When clicking the **Activate** button:

- The numbers will be added to the platform which means they are now ready for usage •
- The donor and the porting authority will be informed that the port has to be activated.

As soon as the broadcast is received from the porting authority, the status is changed to **ACTIVATED**.



**Note:** When you disconnect a ported in number, it will not be visible in the disconnected tab. However, the number remains in quarantine for a while. Our Number Porting system will release the number to the donor after the quarantine period.

### 5.9 Cloud Connections

A new, upcoming service in the self-care portal is the management of Cloud Connections. This service is about the integration of the Broadworks application with Cloud UC application.

### **MS Teams** integration

The first Cloud UC application which will be made available is the Microsoft Teams application. The administrator will have the capability to link an MS Teams user to a BroadWorks user so that this latter one can use his MS Teams Client as a softphone application on the BroadWorks solution.

Another use case will to link the MS Teams user to a SIP Trunk User (a number on the BroadWorks application) so that the BroadWorks solution will play the role of call routing application. An incoming call on the BroadWorks application for a MS Teams users will be routed by the BroadWorks application on the (SIP) trunk towards MS Teams application (and eventually to the MS Teams users).

J	UC Control Hub	🔋 Home / 🖿 Test Enterprise Stijn
<	<b>Test Enterprise Stijn</b> Enterprise	Cloud Connection
	Home	Please select one of the cloud connection types you want to add:
.1	Statistics	MS Teams >
2:::	Call flows	
Do	Accounts	
	Sites	
) D	Licenses	
Ç	Phone numbers	
0	Cloud Connections	
	Mobility	
<u></u>	Contacts	

### More will come in the 3.4 release.



### 5.10 Mobility

The Mobility service is used to display mobile numbers that were added to your tenant for fixed-mobile integration. Only these numbers can be used for *on-net mobility*.

### 5.11 Contacts

The **Contacts** service is used to manage external contacts and is found back on each level (Tenant level, Group level and End user level).

When logged in as an administrator on a certain level, or as an end user, only those contacts that are created (added) on that specific level are shown.

There are a few ways to introduce new contacts. There is the possibility to add contacts one by one via the *Add* button, or to use the *Upload csv* to upload a larger number of contacts.

The page offers also the capability to download the list of contacts.

The screenshot below shows the contacts service on Tenant level.

Contacts							
<b>Q</b> Search			🛨 Upload csv	👲 Download	① ① Delete		
	Name	Phone number		Туре			
	No records to display						
					10 • per page < >		

From the release 3.1 there is the possibility to synchronize with the Webex directory.

The service gives the ability to synchronize on demand the contact list in BroadWorks with the Webex directory. The synchronization is done on Group level by the administrator.



9	UC Control Hub	🚺 Home / 🖿 Test Enterpr	ise Stijn / Groups / 🛄 Headquarters	Show advanced features 💽	? Help 🌐 EN 🔁 🕒
<	Headquarters Site	Contacts			
	Home	Q Search	Synchronization with Webex	① Upload csv ② Download	Delete + Add
<i>p</i> :::	Call flows	Name	Phone number	Туре	
Do	Accounts	1 Netaxis contact 1	+3226260120	Group	/ 11
21	Contacts	2 Netaxis solutions cont	act 2 +31302004494	Group	/ 11
.ıl	Statistics				10 x per page ( 1 )
Ç	Phone numbers				per page
	Mobility				

On user level there is a message informing the user that if he wants to synchronize his contact list with Webex, he must contact his administrator.

The below screen shows the message on user level.

	Y	۲									Show advanced	features 🔵	FAQ	? Help	3	⊕ en	Θ
	$\bigcirc$	Contac	ts 🕕														
	88	To synchr Speed di	ronize your contact list with V ials (8) S	vebex, please of	ontact your administrate	Site direct	tory	Busy La	amp Fi	eld							
	હ	Associate	a single-digit code with	a string of dig	gits (0-9, *, #). Once d	defined, you c	an dial	this single digit instead	d of the	e full string.							
l	20	2	My little darling		+32485973334	Ļ	e,		6								
	e s		Free entry														
	5	3	Select from contacts						7	Warehouse		1328		9	9		
		U	Select from colleagues	S													
	C1	4	Activate call forw	arding	*21#00324786	04974#	e,		8	IT Support		3241		و	9		
	Q		5-14														
	00	5	Delete		+31483939922	2	e.		9								

### 5.12 Admins

This Admins service allows creating additional administrators on the different levels.

- On Tenant level the service creates additional Tenant administrators.
- On **Group level** the service creates additional Group administrators.

Clicking on the Add button will open a new window where the information of the new administrator needs to be filled in.



### 5.13 Schedules

The **Schedules** service is used to manage holiday and time schedules for the different levels (tenant level and Group level). These schedules can then be used in other services on those levels.

If for example, in the IVR configuration - Call Flow service on Group level - there is a need to define a "Schedule" (Business Hours and/or Holiday), the schedules that are already defined on Tenant level and/or Group level will be offered as possible schedules proposals.

The IVR will use the schedules that are defined on "Enterprise" or "Service Providers level" (Tenant schedules) or on "site / group" level.

1	J	UC Control Hub	Tenants / …	/ Ivrs / 📩 Sales	
	$\checkmark$	Sales IVR	Schedule		
		Home	Business hours	Holiday	
	C	Recent calls	Use business hours		
	88	Menus	(i)	belect -	
	P.L.	Incoming calls		GROUP SCHEDULES	
	N.	Outgoing calls		Business Hours - Sales	
	<b></b>	Schedules		TENANT SCHEDULES Business Hours StEnterprise	
	00	Voicemail		+ Add new schedule	
	ľ	Media			
		Details			

The calendars work in a similar way to perhaps already known calendars from other applications like Google calendar, or Microsoft calendar.

### 5.14 Search

On **Tenant** level there is also a **Search** service, which gives the ability to search in the tenant for the following categories:

- Users
- Devices
- Sites



Different filters can be set per category, as well as an *Advanced Search* per category.

The screenshot below gives an example of the search filters for the users' category.

Search					
Users	Devices	Sites			
Filter:					
Select	•		Q Search	<b>i</b>	- Advanced search
User ID					
Last name					
First name					
Phone number					
Email					
Extension					

Selecting the Advanced Search for the users' category will open the following screen:



Search criteria:		Clear all
User ID contains:		
User last name contains:		
User first name contains:		
User email contains:		
User phone number contains:		
User extension contains:		
Max number of results:		
	Consul	Const

### 5.15 TrunkGroups

The **Trunkgroup** service groups different trunks into trunkgroups to load balance traffic and provide redundancy. This service is sometimes also called **Enterprise Trunking**.

Enterprise trunk management allows grouping the 'trunks' into logical "trunk groups", so that different routes (connections) can be created from the BroadWorks solution to an endpoint (network, SBC, etc.). In this way the load from the connection can be spread over the different routes, or a backup route can be foreseen on the connection.



How it is done:

- First a trunk needs to be created on group level. These trunks are the point-to-point connection between the BroadWorks solution and the network.
- Second, an enterprise trunk is created, which is a trunk group creating redundant groups of trunks.

There are 2 types of enterprise trunks, Ordered and Weighted, with the following explanation:

### Ordered enterprise trunks:

- In the selection criteria, the first trunk is always selected.
- If this first trunk is out of service or overloaded, the next one is taken.
- etc...

### *Weighted enterprise trunks*:

- It is possible to put a priority and a weight to the trunks.
- First the trunk with highest priority is taken.
- If multiple trunks share the same priority, then traffic is spread according to the provisioned weight.

The figure below shows the second step in the provisioning of the Enterprise Trunk, where the type needs to be selected.



<ul> <li>Image: A start of the start of</li></ul>	2		•	6
Details	Trunk type	Routing Strategy	Add Trunks	Assign DIDs
Type:				
Weighted You give each	trunk a priority and weight			
Ordered Trunks placed	by order			
Distribution s	trategy			
🔵 Ordered l	oad balancing			
Overflow				
🔵 Most Idle				

When selecting the Ordered type, it is needed to select the Distribution strategy. You have the following option here:

- Ordered load balancing if load-balancing has been put on the trunk.
- Overflow doing an overflow from one enterprise trunk to the other.
- Most idle Distributing towards the one who has been the most idle.
- Least idle Distributing towards the one who has been the least idle.

When selecting the weighted trunk type, a priority needs to be set in the 3<sup>rd</sup> step (Routing strategy) of the provisioning wizard.



<b>Ø</b>			3		5
Details	Trunk t	ype	Routing Strategy	Add Trunks	Assign DIDs
Max number of re 10	route attempts	1			
Max number of re with in a priority 1	route attempts 0	1			
When no route is a	available				
🖲 Fail					
Forward to phone number Category num			number name		

### 5.16 Details

The **Deatials** service on the tenant level give more information about the tenant.

The details page contains information about the domain, the type of setup in BroadWorks, the name and could contain information about support email addresses, contact information and address information.



	Home	Tenants / 🗈 Test Enterprise Stijn
.ıl	Statistics	Test Enterprise Stijn
2::	Call flows	Details Voice messaging settings
Do	Accounts	1
III	Sites	Domain: netaxis.be Type: Enterprise
) I	Licenses	Tenant name: Test Enterprise Stijn Support e-mail:
S	Phone numbers	Account status: active
0	Cloud Connections	Main contact
ņ	Mobility	Phone number: Email:
2	Contacts	<ul> <li>Address information</li> </ul>
Do	Admins	Street:
	Schedules	City:
다	Porting requests	Country:
Ъ	Trunkgroups	
Q	Search	
E	Details	

Another tab gives some configuration options for the voice messaging service. The integrated voicemail system allows sending emails when a new message has been registered or if there is something wrong with a voicemail inbox. This configuration option allows changing the email address used as the sender of such messages.



Ser	nder's email with voice message
Cho sen	oose which email should be displayed as sender's, when voice message is nt via email
0	Default email
$\bigcirc$	Custom email
I	Email:
Cho voi	oose which email should be displayed as senders when notification of new ce message is sent via email
0	Default email
$\bigcirc$	Custom email
I	Email:
Cho	oose which email should be used to access your voice portal
0	Default email
$\bigcirc$	Custom email
I	Email:
	✓ Save X Cancel

# 6 Group administrator services

This section will describe the services which are specific to groups and to group administrators.

It was already mentioned that end users and call flows are linked to a group, but so are the following ones:

• Trunking: Trunking allows setting up a maximum amount of simultaneous calls for specific groups.



- Departments: Departments are an administrative layer in the platform.
- Calling settings
- Devices
- Media

## 6.1 Trunking

The below screenshot gives an example of the **Trunking** page on Group level.

Home / 🛄 Brussels Office	
Trunking	
Maximum simultaneous calls 10 Can peak to 16 simultaneous calls	+ Add
1 TrunkGLDemo	>

Setting the amount of simultaneous calls is done by clicking on the pencil. The screenshot below gives this result:



Edit Trunking licenses			
Select trunking licenses:	Selected licenses:	Limits	Max
✓ Trunking licenses	<ul> <li>Trunking licenses</li> </ul>	10	20 🔟
Max bursting	<ul> <li>Max bursting</li> </ul>	3	8 🔟

When selecting one of the existing trunks, following information and configuration can be checked or changed.

- Access Detail: This tab contains authentication details (username and password for SIP registration) and whether a "Network point of presence" is included in the configuration or not.
- **Capacity:** Set the number of simultaneous calls for this trunk. It's possible to specify the number of incoming and outgoing calls. Also allowing "bursting" on this capacity is a possible configuration item.
- **Call Forwarding:** In this tab it's possible to define what calls need to do when the trunk is not reachable.
- **DIDs:** This tab allows assigning DID numbers to this trunk.

TrunkGLDem	10 🔟 Delete			
Access details	Capacity	Call forwarding	DIDs	
✓ Authenticatio	n			
✓ Network poin	t of presence			
		✓ Save X	Cancel	

When adding a Trunk, a new window will appear which requires the trunk information (name, number of channels, etc...) and the authentication configuration.



1	2		
Create Trunk	Auth	entication	
Trunk name*			
Channels amount* 1 max 10			
Point of precence			
SBC POP1			
Default			

### 6.2 Departments

A department is an optional classification within a group. The self-care portal offers the ability to add, edit and delete departments on the broadworks solution. Each department has its own CLI phone number and could use its own CLI name.

### 6.3 Calling setting

The calling settings allow setting configurations for the calls. There are:

- Outgoing call plan
- Incoming call plan
- Authorization codes
- Feature access codes
- Group Forwarding
- Call capacity groups



- Call Park
- Call processing policy
- Fax to email

### 6.3.1 Outgoing call plan

Outgoing calling plan allows to view the calling plan rules for outgoing calls. Only an administrator can change which call types are permitted.

There are 2 tabs. One for the originating calls, one for redirecting calls.

< C	outgoing calling plan					
Outgoing administr	g calling plan allows to view the ca rator can change which call types a	lling plan rules for outgoing ca are permitted.	ils. Only an			
Originat	Redirecting					
						✓ Save × Cancel
	Department	Internal calls	Toll free	National	International	
1	Users without department	Allow ~	Allow ~	Allow ~	Allow ~	Manage codes
2	Sales	Allow ~	Allow ~	Allow ~	Allow ~	Manage codes
3	Testing	Allow ~	Allow ~	Allow ~	Allow ~	Manage codes

### 6.3.2 Incoming call plan

This setting can be used to set incoming call restrictions for departments of your group. You can also set restrictions for users by drilling drown to their incoming setting menu.



#### Incoming calling plan

This setting can be used to set can also set restrictions for par	incoming call restrictions for d ticular users by drilling drown I	epartments of your group. You to their incoming setting menu.				
Q Search					0	Delete + Add
						✓ Save X Cancel
	Name	Digit string		Group default	Sales	Testing
	Calls within enterprise					
	Calls outside of enterprise			Allow ~	Allow ~	Allow ~
	Collect calls					
1	Excluding Belgium	32	ľ			
2	Excluding France	+33	ı			

The administrator can add a new call plan by clicking on the "+Add" button, filling in the Name field and the digits that needs to be blocked.

_	
Name	You can use digits from 0 to 9 and also following characters: ? - matches digits from 0-9, * and #
Digit string	<ul> <li>digit string can contain one or more question marks</li> <li>? can appear in any position except for national prefix/country code</li> <li>Example:</li> <li>203990????, 203?9000?9</li> </ul>
	* - matches zero or more digits - is allowed only at the end of digit string Example: 301* - this means that this restriction matches any string beginning with 301, 3015550100 for example
	[] matches single digit that satisfies the specified range of digits - use in case you want to list consecutive (use hyphen "-") or nonconsecutive (use comma ",") ranges <b>Example:</b> [1,3] [1-8, 9], [1-6]
	+ - allowed as a first character of the number <b>Example:</b> +12349099909
	#
	Cancel Add


## 6.3.3 Authorisation codes

This service allows the group administrator to select specific users who must enter a valid authorization code when making a call to a party outside of the group.

< Authoriza	tion codes						
This service allows the group administrator to select specific users who must enter a valid authorization code when making a call to a party outside of the group							
Codes	Settings	Users					
<b>Q</b> Search			(i) Delete + Add				
Code	De	escription					
	No rec	ords to display					
			10 🔹 per page < >				

There are 3 tabs on the Authorization page. These are:

- Codes: To manage the codes
- Settings: To define some settings
- Users: To enter the users who needs to dial out with these Authorization codes.

#### 6.3.4 Feature access codes

Feature access codes are codes you can use to activate / deactivate a feature via your phone.

The page shows a list of all feature access codes configured on the solution.



<	Feat	иге ас	cess codes	
	Featur	e access	codes are codes y	rou can use to activate / deactivate a feature via your phone.
	Q	Search		👲 Download CSV
			Code	Name
		1	*48	Call Recording - Pause
		2	#92#	Call Return Number Deletion
		3	*34	Advice Of Charge Activation
		4	*50	Push to Talk
		5	#33*	Communication Barring User-Control Deactivation
		6	#77	Selective Call Forwarding Deactivation
		7	*610	No Answer Timer
		8	#84	Monitoring Next Call
		9	*28	Mobility Calling Line ID Activation Per Call

#### 6.3.5 Group Forwarding

Redirect all incoming calls for a user to a forwarding number. The redirection can be activated either manually (permanent) or automatically at specified time periods (defined by a time and/or holiday schedule).

When choosing for the "Only during" option, the schedules defined on the schedule service appears.



<

# Group Forwarding

Redirect all incoming calls for a user to a forwarding number. The redirection can be activated either manually (permanent) or automatically at specified time periods (defined by a time and/or holiday schedule).

Permanently enabled			
Only during			
Business hours	No schedule	•	
Holiday Schedule	No schedule	•	
-orward to phone number			

## 6.3.6 Call Capacity Groups

Create a new capacity group and manage existing call capacity groups. Defining call capacity groups limits users in these groups to a defined number of concurrent calls.



+ Add Call	capacity group	(
Group details		Assign use
Group name*		
Active calls al	lowed*	
Active incomi	ng calls allowed	
Active outgoi	ng calls allowed	
Automatically	add new users to this group	

## 6.3.7 Call Park

Call Park groups allow users in those groups to park calls on that group.



## < Call Park

Call park groups allow users in those groups to park calls on that group.

Settings for All Parked Calls			^
Ring Pattern For Recalled Calls:	norm	al 🗸	
Recall Parking User After	45	seconds	
Recall Alternate Destination After	45	seconds	
			✓ Save X Cancel
Settings for Group Call Park			^
Display Timer 5 seconds			
Enable Parked Destination Announce	ments		
			✓ Save X Cancel
			+ A

Adding a new Call Park group, will open a new window where the administrator is guided via a wizard to create a new Call Park group.



	Acciant uses to the call park aroun	Alternate hunt group
	Assign user to the call park group	Alternate nunt group
Group name*		
Recall To:		
Alert parking user on	ly	
Alert parking user fire	st, then alternate user	
Alert alternate user		

#### 6.3.8 Call processing policy

The self-care portal allows managing the Call Processing Policies at Group level. Because some parameters are specific to an Enterprise setup in BroadWorks, and others specific to the Service Providers' setup, there is a difference in what will be displayed in these two different modes.

The different categories which can be configured are: - Calling Line Identity - Media - Call limits -Translation and Routing - Dialable Caller ID - Phone List Lookup

The screenshots below are taken from the Enterprise setup. The Service Provider setup has the same categories, only the configuration options are slightly different.

#### 6.3.8.1 Calling Line Identity

The below screenshot shows the different configurable parameters for the Calling Line Identity. How the parameters are configured in the screenshot below is just as an example.



Y	Tenants / 🔝 U	AT_BCOE_ent1 / 🗍 UAT_BCOE_ent1_g4373		Show advanced features	🖸 FAQ   ? Help 🛇 🌐 EN 😝				
$\checkmark$	< Call processin	g policy							
50	Calling Line Identity	Media Call limits	Translation and Routing	Dialable Caller ID	Phone List Lookup				
ن ہ	Calling Line ID Grou Calling Line ID Grou	up Number: 016474093 up Name: Netaxis Group							
E	Use group nam	Use group name for Calling Line identity Allow Department Name Override							
تر. 0	Use Group Call	ing Line ID Policy Calling Line ID Policy							
٢	External Calls:	Use phone number for Calling Line ID Use phone number for Calling Line ID	*						
8 *		Use configurable CUD for Calling Line ID Use group/department phone number for Calling L	Line ID						
\$	Emergency Calls:	Use phone number for Calling Line ID Use phone number for Calling Line ID	•						
Ci		Use configurable CLID for Calling Line ID Use group/department phone number for Calling L	Line ID						
<u>~</u> £	Enterprise Calls:	Use location code + extension Use extension							
ъ.		Use External Calls Policy							
	Group Calls:	Use location code + extension Use extension Use location code + extension	•						
	Allow Alternate	Use External Calls Policy Numbers for Redirecting Identity							
	Allow Configure Block Calling N Use User Phone	able CLID for Redirecting Identity Iame for External Calls e Number for Enterprise Calls when Internal CLI	D unavailable						
	Use user Phon	e number fot group cass when internal CCD un	ve   × Cancel						

#### 6.3.8.2 Media

The below screenshot shows the different configurable parameters for the Media. How the parameters are configured in the screenshot below is just as an example.



1	J	Tenants / 🗈 UAT_	BCOE_ent1 / 🛄 UAT_BCO	DE_ent1_g4373		Show advanced features	🖸 FAQ 🕈 Help 🗿 🌐 EN 😝
(	0	< Call processing p	policy				
	8	Calling Line Identity	Media	Call limits	Translation and Routing	Dialable Caller ID	Phone List Lookup
9	9	Use Group Media	Policy				
,		<ul> <li>Use Enterprise Me</li> </ul>	edia Policy				
2	5	Media Policy:					
ŝ	C	None					
		<ul> <li>Force use of L</li> </ul>	Uncompressed Codec				
	-0	Use Supporter	d Media None	-	•		
C	כ			✓ Save X Ca	ancel		
9	2						
Ê	1						
5	5						
1	3						
C	ò						
6	Z						
0	8						
5	4						
	ı						
	Ð						

#### 6.3.8.3 Call Limits

The below screenshot shows the different configurable parameters for the Call limits. How the parameters are configured in the screenshot below is just as an example.



Y	Tenants / 🔝 UAT_BCOE	ent1 / 🗌 UAT_BCO	E_ent1_g4373			Sho	w advanced features 🦲	) FAQ   ? Help	0 @1	N \varTheta
$\checkmark$	Call processing polic	су								
00	Calling Line Identity	Media	Call limits	Tran	slation and Routing	Dialab	ble Caller ID	Phone List Looku	p	
;; ()	Use Group Call Limits I	Policy nits Policy								
20	<ul> <li>Enable Maximum Num</li> <li>Enable Maximum Num</li> </ul>	bers of Concurrent	Calls Video Calls	5 5	calls video calls					
ر ۵	Enable Maximum Dura	ition for Answered i	Calls rd Calls	1440 2	minutes					
<b>O</b> II	Enable Maximum Num	bers of Concurrent	Redirect Calls Find Me/Follow me	5	calls invocations					
₩	Enable Maximum Num     Enable Maximum Con	bers of Find Me/Fo	ollow me Depth	2						
\$	Enable Maximum Concurrent Terminating Alerting Requests     10     Include Redirections in Maximum Number od Concurrent Calls     Maximum Redirection Depth 5									
Ci Ø				🗸 Sav	re   × Cancel					
~2										
л. .1										
III										

## 6.3.8.4 Translation and Routing

The below screenshot shows the different configurable parameters for the Translation and Routing. How the parameters are configured in the screenshot below is just as an example.



Y	Tenants / 🛅 UAT_BCOE_ent1 / 🛄 UAT_BCOE_ent1_g4373				Show advanced features	🖸 FAQ <b>? Help 🗿 🌐 EN  🖨</b>
$\checkmark$	< Call processin	g policy				
08	Calling Line Identity	Media	Call limits	Translation and Routing	Dialable Caller ID	Phone List Lookup
H j) 0. 5 y 0	Use Group Trai	Instation and Routing Poli Translation and Routing Don't Force Enterprise/G Force All Calls to use th Force All Calls to the N Don't Force Enterprise/	Cy Policy oup Calls to the Network e Network twork except extension/locatio Group Calls to the Network	* 0		
0 11 11 12 12 12 12 12 12 12 12 12 12 12	Enable Enterpr     Enforce Group     Allow Enterpris     Allow Enterprise     Use Enterprise	ise Extension Dialing Calling Line Identity Rest e/Group Call Typing for I le/Group Call Typing for I CLID for Private Call Cat	riction Private Dialing Plan Public Dialing Plan egory			
≉			✓ Save	× Cancel		
Ci Ci						

## 6.3.8.5 Dialable Caller ID

The below screenshot shows the different configurable parameters for the Dialable Caller ID. How the parameters are configured in the screenshot below is just as an example.

Y	Tenants / 🗈 UAT_BCOE_ent1 / 🗐 UAT_BCO	Show advanced features	🗋 FAQ   ? Help 🗿 🌐 EN 😝		
$\checkmark$	Call processing policy				
88	Calling Line Identity Media	Call limits	Translation and Routing	Dialable Caller ID	Phone List Lookup
¢;;	Use Group Dialable Caller ID Policy				
8	<ul> <li>Use Enterprise Dialable Caller ID Policy</li> <li>Dialable Caller ID:</li> </ul>				
2.5	On Off				
ç		✓ Save   × Cance	4		

### 6.3.8.6 Phone list lookup



The below screenshot shows the different configurable parameters for the Phone List Lookup. How the parameters are configured in the screenshot below is just as an example.

Y	Tenants / 🔝 UAT_BCOE_ent1 / 🛄 UAT_BCO	Show advanced features	) FAQ ? Help 🛇 🌐 EN 😝		
$\bigcirc$	Call processing policy				
88	Calling Line Identity Media	Call limits	Translation and Routing	Dialable Caller ID	Phone List Lookup
ę.,	Use Group Phone List Lookup Policy				
8	Phone List Lookup:				
20	On Off				
C		✓ Save   × Cance	el		
۵					
<b>O</b>					

#### 6.3.9 Fax to email

The service is disabled by default and needs to be enabled during the implementation phase of the project for those customers who would like to make use of this service.

This service is exposing a virtual service at Group level by creating in the background a fax user.

The figure below shows the Fax to email page on the self-care portal.

>	)	Tenants /	] UAT_BCOE_ent1 / 🛄 UAT_BCOE_en	r1_94373	Show advanced features	FAQ   ? Help	0	D EN	θ
<	)	Fax to Email	1						
00				Erase the service					
ę.,		Active							
8		Fax number: *	38045215266	·					
(87)		Email: *	admin@gmail.com						
Left-1		Language:	English	•					
e.				✓ Save   × Cancel					
Ø									
2									
66									
\$									



The page allows activating the service, filling in the concerned fax number, the email address where the fax needs to be sent to and a language (optional).

A future improvement of this service will be the ability to add several faxes to email and create a kind of overview list of all the Fax to emails that you have configured on the Group. There will then be the possibility to activate and de-activate them line by line.

The figure below shows a previe of how this improvement will look like:

Y	Tenants / 🗈 UAT_BCOE_ent1 / 🗐 U	JAT_BCOE_ent1_94373	Show advanced features	FAQ   ? Help 🗿 🌐 EN 😝
$\bigcirc$	< Fax to Email			
00	Q, Search			+ Add
€;;	Fax number	Email 14	Language	
2	*27217400900	admin@gmail.com	English	/ 3
25	+27217400900	admin@gmail.com	English	
€.,	*27217400900	admin@gmail.com	English	2 8
	*27217400900	admin@gmail.com	English	
۲	*27217400900	admin@gmail.com	English	/ 8
-				
88				
\$				

## 6.4 Devices

The device inventory page gives an overview of all devices used on that group. It gives a view on the Device name, the type, in some cases the MAC address and the free ports.



Device inventory			
Q Search			+ Add
Device name	Туре	MAC address	Free port(s)
1 DP_PROD7961_g2465_u0170A4	Connect - Mobile		0
2 DP_PROD7961_g2465_u0170A5	Business Communicator - PC		0
3 DP_PROD7961_g2465_u0258A4	Connect - Mobile		1
4 DP_PROD7961_92465_u0258A5	Business Communicator - PC		1
5 DP_PROD7961_g2465_u0328A4	Connect - Mobile		0

Adding a new device, opens a new window where the device needs to be selected from a list. When a device is selected from a supported device list, the device name and MAC address need to be introduced.

ect from supported devices list:	Select from supported devices list:	
Q Search	<ul> <li>Polycom VVX 250</li> </ul>	
Polycom VVX 250	Device management:	
O Polycom VVX 450	Device name:*	
SFR SNOM 320	MAC address:	
SNOM-D385		
SNOM-D785		
Test Phone Netaxis		

## 6.5 Media

The media service allows the administrator to define announcements to be used by other services. The page gives a list of all the medias your group can use for announcements on voicemail for example.



You can search through your medias using the "Search" bar.

Media		
Announcements Music on hold		
Q Search	👲 Download 🔟 Delete	e + Add
Announcements	Size	Actions
1     Image: Double appel prédéfini	335 КВ	⊉   ∥   🗊
2 <b>()</b> Test	123 KB	⊉   ♪   🔟
	10 🔹 per page	< <u>1</u> >

Adding a new media can be done by uploading a media file, recording an announcement or select a media file from the library.

Media		
Announcements Music on hold	Upload med	dia file
Q Search	👲 Dowr Record ann Select from	ouncements + Add
Announcements	Size	Actions

On the Music on Hold tab, it is possible to define when Music on hold needs to be played to the callers.



Media	
Announcements	Music on hold
Select the media object	
<ul><li>System music</li><li>Custom music:</li></ul>	
Use other music or	hold for internal calls:
Active during:	
Call hold	
Call park	
Busy camp on	
	✓ Save × Cancel

## 6.6 Details - Inventory Report

As from the 3.2 an **Inventory Report** tab has been added to the Details page on group level.

The goal of this feature is to ask the backend to generate an inventory report and send it by email.

In the self-care portal the page will display a set of parameters to define what can be in the report:

- users (warning it is all users: end users and service users (also known as call flows),
- services (by default not selectable),



- numbers,
- devices,
- departments (by default not selectable),

For the email address we verify if the connected user already has an email address, then this field is pre-filled with this email address. If he does not have an email address, then the field is empty and a valid email address need to be filled.

The figure below shows the Inventory Report service.



The "Generate" button requests the report generation. As soon as the report is generated, the user gets informed about this.





# 7 System administrator feature

## 7.1 Change Log / audit tab

This feature has been introduced to give traceability on all the changes that were done on an enterprise, on an user or on a group.

The feature brings added value for technicians and support engineers when they're troubleshooting the solution. Sometimes customers make their own changes, and this feature gives the support team the visibility on all historical changes that were done since a given date (or within a specific time). They'll get a view on what was changed and by whom, and if needed they can revert the configuration back to the original status.

The feature can be used by selecting the "watch"-icon in the right upper corner of the screen. As this is a feature which is valid for multiple different levels/pages, it will always be shown on the screen when logged in as a system administrator.

The feature is accessible on the following levels and/or services: - Tenant - Group - User - basic call center (call center / premium call center) - IVR - Hunt Group.

The functionality of the feature is the same on all the different levels and/or services. The only difference is that the "scope of the history" is limited to the specific level or service.

For example: 1. When you are on tenant level in "Enterprise A", you'll see all requests that happened for that specific tenant (or Enterprise A) - this means also means all changes on sites, on users, IVRs, etc. belonging to that enterprise. 2. When you drill down into a specific call center, you'll only see the changes for that call center. 3. When you are in a specific group, you'll see all changes happened in that group. Not the changes of another group.

When pressing the Audit-button, the system administrator receives a page looking as follows: (screenshot below is taken from tenant level)



	Tenants /	Acme Inc.						Show advanced features	<b>FAQ</b> ? Help	⊕ en	0 3	0
📅 Filte	🗄 Filters Columna: id (All) +9 Other 🔹											
Time p	eriod 15/12/2	022 15:28 - 16/12/2022 1	5:28 × Method != 0	JET ×								
	id	Created	Last update	Duration	Type of change	Site ID	Object id	Change	User	Status		
1	3623665	2022-12-16 10:50:21	2022-12-16 10:50:21	0 sec	DELETE			/calendar_schedules/holiday_new/hhhh/	netaxis	200	>	
2	3623663	2022-12-16 10:50:13	2022-12-16 10:50:13	0 sec	DELETE			/calendar_schedules/holiday_new/ttttt/	netaxis	200	>	
3	3623659	2022-12-16 10:50:08	2022-12-16 10:50:08	0 sec	DELETE			/calendar_schedules/holiday_new/t/	netaxis	200	>	
4	3623657	2022-12-16 10:49:57	2022-12-16 10:49:58	1 sec	DELETE			/calendar_schedules/holiday_new/123/	netaxis	200	>	
5	3623655	2022-12-16 10:49:28	2022-12-16 10:49:28	0 sec	PUT			/calendar_schedules/holiday_new/chi/	netaxis	200	>	
6	3621566	2022-12-15 20:59:25	2022-12-15 20:59:25	0 sec	PUT	UAT_BCOE_ent1_94373	UAT_BCOE_ent1_94373_hg0146	/services/hunt_groups/	alexander.makohon	200	>	
7	3621526	2022-12-15 20:58:47	2022-12-15 20:58:47	0 sec	PUT	UAT_BCOE_ent1_94373	UAT_BCOE_ent1_g4373_hg9064	/services/hunt_groups/	alexander.makohon	200	>	
8	3621523	2022-12-15 20:58:31	2022-12-15 20:58:33	2 sec	PUT	UAT_BCOE_ent1_94373	UAT_BCOE_ent1_94373_hg9064	/services/hunt_groups/	alexander.makohon	200	>	
9	3621412	2022-12-15 20:56:14	2022-12-15 20:56:14	0 sec	PUT	UAT_BCOE_ent1_g4373	UAT_BCOE_ent1_g4373_hg4235	/services/hunt_groups/	alexander.makohon	200	∢	
10	3621408	2022-12-15 20:55:30	2022-12-15 20:55:30	0 sec	PUT	UAT_BCOE_ent1_g4373	UAT_BCOE_ent1_94373_hg4235	/services/hunt_groups/	alexander.makohon	200	>	

With the following definition of each of the columns shown on the screen:

Column	Description
Instance ID	A sequential ID provided by the system for each request. Clicking on the Instance ID gives more details about it.
Created on	A date and time when the change was observed.
Last update	A date and time when the last update was done.
Duration	Time between the "last update" and "created on".
Type of change	This is the HTTP method of the API call read (GET), update (PUT), create (POST) and delete (DELETE)
Group id/site id	This is the ID of the side/group on which the change was done. (This field might be empty if the action was not linked to a specific side/group).
Object id	this is the call center ID, IVR ID, user ID, etc. (This can be empty if it tenant or group change.)
Changed configuration	This field shows the configuration path where the change has been done.
User	This field gives the information about the user who has done the change.



Column	Description
Status	This gives the status value of the change: if the change was successful, (value between 200 and 300), show it as green; if there was an issue (value 404), show orange; if we have received another code, show red.

On the right side of each line of the overview, you have the possibility to go more into the details of each change that has been made. Clicking on the little ">", will open a right-hand drawer that shows:

- 1. Request tab: this is the json body as it is sent to the API
- 2. Response tab: this is the response as provided by the API

Info tab: this tab shows again all the details that we already in the table (like id, created, updated,  $\dots$ )